

1. "Balance" accounting form consists of two parts - assets and liabilities. Select from the list only the liabilities.

a. Bank loan, accounts payable

b. Accounts receivable, prepaid expenses

c. Authorized capital, fixed assets

d. Fixed assets, accounts receivable

e. Retained earnings, intangible assets

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c. Authorized capital, fixed assets

d. Bank loan, accounts payable

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4. "Avicenna", a newly founded pharmaceutical company, operates round-the-clock. What employees cannot be assigned to night shifts?

a. Employees under 18 (underage)

b. -

c. Employees under 30

d. Employees under 25

e. Employees of retirement age

5. "Avicenna", a newly founded pharmaceutical company, operates round-the-clock. What employees cannot be assigned to night shifts?

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7. "Immunal" immunostimulant is often prescribed against chronic upper respiratory tract infections. What herbal raw material is used in its production?

a. Herba Echinaceae purpurea

b. Radices Rhei

c. Rhizomata et radices Eleuterococci

d. Radices Araliae elata

e. Radices Ginseng

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10. "Novo-Passit" preparation is used as a sedative. It is manufactured from the following herbal raw material:

a. Passiflora grass

b. Acorus calamus rhizomes

c. Populus nigra buds

d. Taraxacum roots

e. Viburnum bark

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13. 1,8-cineole is a bactericidal component of essential oil. Specify the medicinal herb that is grown in Ukraine and contains 1,8-cineole in its essential oil:

a. Salvia officinalis

b. Origanum vulgare

c. Inula helenium

d. Juniperus communis

e. Eucalyptus globulus

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16. 50 ml of injection solution has been made in a pharmacy. Specify the process of solution sterilization:

a. 140°C - 12 minutes

b. 120°C - 8 minutes

c. 110°C - 15 minutes

d. 160°C - 15 minutes

e. 180°C - 30 minutes

17. 50 ml of injection solution has been made in a pharmacy. Specify the process of solution sterilization:

a. 160°C - 15 minutes

b. 110°C - 15 minutes

c. 180°C - 30 minutes

d. 120°C - 8 minutes

e. 140°C - 12 minutes

18. 50 ml of injection solution has been made in a pharmacy. Specify the process of solution sterilization:

a. 180°C - 30 minutes

b. 120°C - 8 minutes

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d. 160°C - 15 minutes

e. 110°C - 15 minutes

19. A "Sunrise" pharmacy chain has changed the placement of medical products on its shelves and in the shop windows, to study what effect would this merchandising tactics have on the sales amount. What method of marketing research was used by this pharmacy chain?

a. Experiment

b. Panel

c. Observation

d. -

e. Survey

20. A "Sunrise" pharmacy chain has changed the placement of medical products on its shelves and in the shop windows, to study what effect would this merchandising tactics have on the sales amount. What method of marketing research was used by this pharmacy chain?

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22. A 10-year-old child was prescribed an antibiotic to treat pneumonia, after which the mother noticed deterioration of the child's hearing. What group of antibiotics could have caused such a complication?

a. Aminoglycosides

b. Cephalosporins

c. Macrolides

d. Penicillins

e. Fluoroquinolones

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25. A 12-year-old girl has been diagnosed with acute pyelonephritis. What antibacterial agent has an age limit for its prescription to a patient?

a. Levofloxacin

b. Cefuroxime

c. Amoxicillin

d. Benzylpenicillin sodium salt

e. Clarithromycin

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28. A 24-year-old man suffers from exacerbation of chronic bronchitis. This condition is accompanied by production of a small amount of viscous sputum. What drug is indicated to facilitate the expectoration in this case?

a. Budesonide

b. Ipratropium bromide

c. Acetylcysteine

d. Oxeladin

e. Fenoterol

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31. A 24-year-old patient after a thorough examination was diagnosed with type 1 diabetes mellitus

for the first time. What antihyperglycemic agent should be prescribed in this case?

- a. Etacrynic acid
- b. Insulin**
- c. Glibenclamide
- d. Metformin
- e. Urea

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34. A 25-year-old man is diagnosed with acute pyelonephritis of moderate severity. What drugs should be prescribed for etiologic therapy?

- a. Antiarrhythmic drugs
- b. Nonsteroidal antiinflammatory drugs

c. Antimicrobial agents

- d. Anticholinesterase drugs
- e. Glucocorticoids

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37. A 25-year-old woman is in the third trimester of her pregnancy. During her regular examination, US detected a malformation in the fetus. Medical history of the patient shows that she was taking large doses of diazepam without prescription during her pregnancy. What type of side effect has occurred in this case?

a. Teratogenic

- b. Carcinogenic
- c. Fetotoxic
- d. Embryotoxic
- e. Mutagenic

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40. A 28-year-old pregnant woman (8-9 weeks) after clinical examination and laboratory analysis was diagnosed with acute pyelonephritis. What empiric antibacterial therapy will be optimal in this case?

a. Amoxicillin

- b. Tetracycline
- c. Norfloxacin
- d. Gentamicin
- e. Chloramphenicol

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43. A 28-year-old woman came to a pharmacy complaining of constipation that developed after antacid treatment. What drug could be the cause of this symptom?

a. Aluminium-containing drugs

- b. Ranitidine
- c. Simethicone
- d. Calcium carbonate
- e. Magnesium-containing drugs

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- c. Aluminium-containing drugs**
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46. A 3-year-old child is intolerant to paracetamol. What antipyretic drug can be taken instead?

- a. Diclofenac sodium
- b. Acetylsalicylic acid
- c. Naproxen
- d. Nimesulide

e. Ibuprofen

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49. A 35-year-old patient has been prescribed a potassium-sparing diuretic. Select one such drug from the list:

- a. Diltiazem
- b. Furosemide

c. Triamterene

- d. Bisoprolol
- e. Prazosin

50. A 35-year-old patient has been prescribed a potassium-sparing diuretic. Select one such drug from the list:

a. Prazosin

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- d. Furosemide
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51. A 35-year-old patient has been prescribed a potassium-sparing diuretic. Select one such drug from the list:

- a. Prazosin
- b. Furosemide

c. Triamterene

- d. Diltiazem
- e. Bisoprolol

52. A 35-year-old patient with tachycardia has been administered propranolol. Which of the following reactions may be caused by the use of beta-blockers?

- a. Constipations
- b. Drug dependence

c. Bronchospasm

- d. Cumulation
- e. Blood pressure rise

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55. A 36-year-old patient developed acute pyelonephritis. What antibacterial agents has a nephrotoxic effect?

- a. Ampicillin
- b. Erythromycin

c. Gentamicin

- d. Tetracycline
- e. Penicillin

56. A 36-year-old patient developed acute pyelonephritis. What antibacterial agents has a nephrotoxic effect?

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b. Gentamicin

- c. Ampicillin
- d. Tetracycline
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57. A 36-year-old patient developed acute pyelonephritis. What antibacterial agents has a nephrotoxic effect?

- a. Erythromycin
- b. Penicillin
- c. Ampicillin

d. Gentamicin

- e. Tetracycline

58. A 36-year-old woman with herpetic rash on her lips has come to a pharmacy. Recommend her a drug for topical treatment:

- a. Amikacin
- b. Levofloxacin
- c. Fluconazole
- d. Metronidazole

e. Acyclovir

59. A 36-year-old woman with herpetic rash on her lips has come to a pharmacy. Recommend her a drug for topical treatment:

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- b. Levofloxacin
- c. Amikacin

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- b. Levofloxacin

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- d. Amikacin
- e. Fluconazole

61. A 42-year-old man with community-acquired pneumonia was prescribed a long-term antibiotic treatment. What drugs should be prescribed to this patient to prevent development of dysbiosis?

a. Probiotics

- b. Expectorants
- c. Antispasmodics
- d. Antitussive drugs
- e. Mucolytic agents

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64. A 43-year-old patient was delivered to an admission room with renal colic attack. What group of drugs would be the most effective during the attack?

a. Antispasmodics

- b. Antacids
- c. Cholagogues
- d. Hepatoprotectors
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67. A 43-year-old patient with a severe form of rheumatoid arthritis has been administered a certain drug for background therapy. Specify this drug:

- a. Diclofenac sodium

b. Methotrexate

- c. Methylprednisolone
- d. Prednisolone
- e. Nimesulide

68. A 43-year-old patient with a severe form of rheumatoid arthritis has been administered a certain drug for background therapy. Specify this drug:

- a. Diclofenac sodium
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c. Methotrexate

- d. Prednisolone
- e. Methylprednisolone

69. A 43-year-old patient with a severe form of rheumatoid arthritis has been administered a certain drug for background therapy. Specify this drug:

- a. Nimesulide
- b. Diclofenac sodium
- c. Methylprednisolone
- d. Prednisolone
- e. Methotrexate**

70. A 43-year-old woman has come to a pharmacy with complaints of sharp headache in the occipital area, palpitations, "visual snow" in her eyes, nausea; her BP is 180/110 mm Hg. These symptoms correspond with:

a. Hypertensive crisis

- b. Migraine attack
- c. Exertional angina pectoris attack
- d. Acute conjunctivitis
- e. Cervical osteochondrosis

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73. A 44-year-old man was diagnosed with chronic hyperacid gastritis. What pharmacological group of drugs would be the most advisable in this case?

- a. Glucocorticosteroids

b. Proton pump inhibitors

- c. Alpha-blockers
- d. Inhibitors of protein-degrading enzymes
- e. Beta-blockers

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76. A 45-year-old man complains of wet cough. He has been suffering from chronic bronchitis for 20 years. The patient is a smoker. He needs a mucolytic agent that will facilitate expectoration and production of surfactant. What drug can be recommended to the patient in this case?

a. Ambroxol

- b. Proteolytic enzymes
- c. Licorice root
- d. Thermopsis preparations
- e. Potassium iodide

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79. A 45-year-old man has been taking long-acting nitrates twice a day for a year. Currently the decrease in effectiveness of the pharmacotherapy is being observed. What side-effect can be suspected in the first place?

- a. Development of nitrate tolerance**
- b. Progressing coronary atherosclerosis
- c. Progressing ischemic heart disease
- d. Impairment of coronary circulation
- e. Myocardial infarction

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- c. Impairment of coronary circulation
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82. A 46-year-old man came to a dispensing chemist complaining of a dry cough. What antitussive drug can he be recommended?

- a. Bromhexine

b. Oxeladin

- c. Tripsin
- d. Acetylcysteine
- e. Sodium bicarbonate

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- c. Bromhexine
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85. A 46-year-old pharmacy customer suffers from chronic bronchitis and needs a medicine to facilitate expectoration of thick viscous sputum. What drug is indicated in this case?

a. Ambroxol

- b. Oxeladin
- c. Butamirate
- d. Salbutamol
- e. Codeine phosphate

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- c. Codeine phosphate
- d. Oxeladin

e. Ambroxol

88. A 48-year-old woman, who undergoes a prolonged treatment for chronic hepatitis, was diagnosed with pneumonia. What antibacterial agent should she be prescribed in this case?

- a. Rifampicin
- b. Biseptol (Co-trimoxazole)
- c. Streptomycin

d. Amoxicillin

- e. Tetracycline

89. A 48-year-old woman, who undergoes a prolonged treatment for chronic hepatitis, was diagnosed with pneumonia. What antibacterial agent should she be prescribed in this case?

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90. A 48-year-old woman, who undergoes a prolonged treatment for chronic hepatitis, was diagnosed with pneumonia. What antibacterial agent should she be prescribed in this case?

- a. Tetracycline
- b. Rifampicin
- c. Biseptol (Co-trimoxazole)

d. Amoxicillin

- e. Streptomycin

91. A 50-year-old woman complains of headache, dizziness, visual snow, and nausea. The skin of her face is hyperemic. Objectively, her heart rate is 85/min., her blood pressure is 210/120 mm Hg. What is the provisional diagnosis in this case?

a. Hypertensive crisis

- b. Angina pectoris attack
- c. Meningococcal infection
- d. Hemorrhagic stroke
- e. Myocardial infarction

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94. A 52-year-old patient, who takes heparin, developed signs of the drug overdose. What antidote should be used in this case?

a. Protamine sulfate

- b. Acetylcysteine
- c. Potassium chloride
- d. Naloxone
- e. Unithiol

95. A 52-year-old patient, who takes heparin, developed signs of the drug overdose. What antidote should be used in this case?

- a. Naloxone
- b. Unithiol

c. Protamine sulfate

- d. Acetylcysteine
- e. Potassium chloride

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- a. Unithiol
- b. Potassium chloride
- c. Naloxone
- d. Acetylcysteine

e. Protamine sulfate

97. A 53-year-old patient diagnosed with arterial hypertension is undergoing inpatient treatment. After the examinations, the urologist diagnosed the patient with a prostate adenoma. What can be the drug of choice in this case?

- a. Enalapril
- b. Bisoprolol

c. Doxazosin

- d. Verapamil
- e. Propranolol

98. A 53-year-old patient diagnosed with arterial hypertension is undergoing inpatient treatment. After the examinations, the urologist diagnosed the patient with a prostate adenoma. What can be the drug of choice in this case?

- a. Propranolol
- b. Verapamil

c. Doxazosin

- d. Enalapril
- e. Bisoprolol

99. A 53-year-old patient diagnosed with arterial hypertension is undergoing inpatient treatment. After the examinations, the urologist diagnosed the patient with a prostate adenoma. What can be the drug of choice in this case?

- a. Verapamil
- b. Enalapril
- c. Propranolol
- d. Bisoprolol

e. Doxazosin

100. A 53-year-old woman suffers from ischemic heart disease and angina pectoris. What drug can be used to stop angina pectoris attacks?

a. Nitroglycerine

- b. Drotaverine hydrochloride
- c. Dipyridamol
- d. Propranolol
- e. Acetylsalicylic acid

101. A 53-year-old woman suffers from ischemic heart disease and angina pectoris. What drug can be used to stop angina pectoris attacks?

a. Dipyridamol

b. Nitroglycerine

- c. Acetylsalicylic acid
- d. Drotaverine hydrochloride
- e. Propranolol

102. A 53-year-old woman suffers from ischemic heart disease and angina pectoris. What drug can be used to stop angina pectoris attacks?

- a. Propranolol
- b. Dipyridamol

c. Nitroglycerine

- d. Acetylsalicylic acid
- e. Drotaverine hydrochloride

103. A 54-year-old hypertonic patient undergoing pharmacotherapy developed bronchial spasm. His physician considers it to be a therapy-induced complication caused by the drug that belongs to the following group:

- a. Calcium antagonists
- b. Ganglionic blockers

c. beta-adrenergic blockers

- d. alpha-adrenergic blockers
- e. Diuretics

104. A 54-year-old hypertonic patient undergoing pharmacotherapy developed bronchial spasm. His physician considers it to be a therapy-induced complication caused by the drug that belongs to the following group:

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- b. Calcium antagonists
- c. Ganglionic blockers
- d. Diuretics

e. beta-adrenergic blockers

105. A 54-year-old hypertonic patient undergoing pharmacotherapy developed bronchial spasm. His physician considers it to be a therapy-induced complication caused by the drug that belongs to the following group:

- a. alpha-adrenergic blockers
- b. Ganglionic blockers
- c. Calcium antagonists

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e. Diuretics

106. A 58-year-old patient with persistent bronchial asthma receives long-term inhalation therapy. Within a week, symptoms of candidiasis appeared in her oral cavity. What medicines could have caused this side effect?

- a. Herbal antiseptics
- b. Mucolytics

c. Inhaled muscarinic antagonists

d. Inhaled glucocorticosteroids

e. Inhaled beta₂-adrenergic agonists

107. A 58-year-old patient with persistent bronchial asthma receives long-term inhalation therapy. Within a week, symptoms of candidiasis appeared in her oral cavity. What medicines could have caused this side effect?

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a. Inhaled beta₂-adrenergic agonists

b. Inhaled muscarinic antagonists

c. Inhaled glucocorticosteroids

d. Mucolytics

e. Herbal antiseptics

109. A 6-year-old child developed pneumonia and was prescribed an antibiotic for its treatment. After the treatment the child's hearing deteriorated. What drug could have caused this complication?

a. Azithromycin

b. Gentamicin

c. Penicillin

d. Ampicillin

e. Ceftriaxone

110. A 6-year-old child developed pneumonia and was prescribed an antibiotic for its treatment. After the treatment the child's hearing deteriorated. What drug could have caused this complication?

a. Azithromycin

b. Ceftriaxone

c. Penicillin

d. Gentamicin

e. Ampicillin

111. A 6-year-old child developed pneumonia and was prescribed an antibiotic for its treatment. After the treatment the child's hearing deteriorated. What drug could have caused this complication?

a. Ceftriaxone

b. Penicillin

c. Azithromycin

d. Ampicillin

e. Gentamicin

112. A 6-year-old girl has been suffering from bronchial asthma for 3 years. To stop the attacks, the pediatrician prescribed her a short-acting beta₂-adrenomimetic. What medicine was prescribed by the doctor in this case?

a. Salbutamol

b. Budesonide

c. Ipratropium bromide

d. Fluticasone

e. Tiotropium bromide

113. A 6-year-old girl has been suffering from bronchial asthma for 3 years. To stop the attacks, the pediatrician prescribed her a short-acting beta₂-adrenomimetic. What medicine was prescribed by the doctor in this case?

a. Salbutamol

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d. Ipratropium bromide

e. Fluticasone

114. A 6-year-old girl has been suffering from bronchial asthma for 3 years. To stop the attacks, the pediatrician prescribed her a short-acting beta₂-adrenomimetic. What medicine was prescribed by the doctor in this case?

- a. Tiotropium bromide
- b. Ipratropium bromide

c. Salbutamol

- d. Budesonide
- e. Fluticasone

115. A 60-year-old man has come to a pharmacy with complaints of impaired twilight vision, dry sclera, cracked and peeling skin. The dispensing chemist suspected hypovitaminosis and recommended the customer to take the following drug after consultation with the physician:

a. Retinol acetate

- b. Vicasol (Menadione)
- c. Ascorbic acid
- d. Tocopherol acetate
- e. Ergocalciferol

116. A 60-year-old man has come to a pharmacy with complaints of impaired twilight vision, dry sclera, cracked and peeling skin. The dispensing chemist suspected hypovitaminosis and recommended the customer to take the following drug after consultation with the physician:

- a. Ergocalciferol
- b. Vicasol (Menadione)
- c. Tocopherol acetate

d. Retinol acetate

- e. Ascorbic acid

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- a. Vicasol (Menadione)
- b. Ascorbic acid
- c. Ergocalciferol
- d. Tocopherol acetate

e. Retinol acetate

118. A 60-year-old patient diagnosed with ischemic heart disease developed bradycardia of 50 min. What drug will be contraindicated in this case?

a. Propranolol

- b. Heparin
- c. Nitroglycerin
- d. Nitrosorbide (Isosorbide dinitrate)
- e. Nifedipine

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- e. Nitroglycerin

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- a. Nifedipine
- b. Nitroglycerin
- c. Nitrosorbide (Isosorbide dinitrate)
- d. Heparin

e. Propranolol

121. A 60-year-old patient, who had suffered a myocardial infarction, was prescribed acetylsalicylic

acid as an antiaggregant. Specify the optimal daily dosage of acetylsalicylic acid for antiaggregatory effect:

- a. 300 mg
- b. 500 mg
- c. 100 mg**
- d. 200 mg
- e. 400 mg

122. A 60-year-old patient, who had suffered a myocardial infarction, was prescribed acetylsalicylic acid as an antiaggregant. Specify the optimal daily dosage of acetylsalicylic acid for antiaggregatory effect:

- a. 400 mg
- b. 500 mg
- c. 100 mg**
- d. 200 mg
- e. 300 mg

123. A 60-year-old patient, who had suffered a myocardial infarction, was prescribed acetylsalicylic acid as an antiaggregant. Specify the optimal daily dosage of acetylsalicylic acid for antiaggregatory effect:

- a. 500 mg
- b. 300 mg
- c. 100 mg**
- d. 200 mg
- e. 400 mg

124. A 62-year-old woman has been diagnosed with acute pyelonephritis. She was prescribed gentamicin. Additionally, she takes furosemide. What are the possible complications of such treatment?

- a. High risk of seizures
- b. Increased ototoxicity of aminoglycosides**
- c. Increased hepatotoxic action of aminoglycosides
- d. Increased hematotoxicity of gentamicin
- e. High risk of allergic reactions

125. A 62-year-old woman has been diagnosed with acute pyelonephritis. She was prescribed gentamicin. Additionally, she takes furosemide. What are the possible complications of such treatment?

- a. Increased hematotoxicity of gentamicin
- b. High risk of seizures
- c. Increased ototoxicity of aminoglycosides**
- d. High risk of allergic reactions
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- a. Increased hematotoxicity of gentamicin
- b. Increased hepatotoxic action of aminoglycosides
- c. Increased ototoxicity of aminoglycosides**
- d. High risk of seizures
- e. High risk of allergic reactions

127. A 63-year-old man suffering from ischemic heart disease was diagnosed with angle closure glaucoma. What group of drugs is CONTRAINDICATED in this case?

- a. Nitrates**
- b. beta-adrenergic blockers
- c. Calcium antagonists
- d. Statins
- e. Anticoagulants

128. A 63-year-old man suffering from ischemic heart disease was diagnosed with angle closure

glaucoma. What group of drugs is **CONTRAINDICATED** in this case?

a. Anticoagulants

b. Nitrates

c. beta-adrenergic blockers

d. Calcium antagonists

e. Statins

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a. beta-adrenergic blockers

b. Nitrates

c. Statins

d. Anticoagulants

e. Calcium antagonists

130. A 63-year-old woman suffering from diabetic nephropathy with functional disturbance of the kidneys needs etiotropic treatment for focal pneumonia. What drug is **CONTRAINDICATED** in this case?

a. Combined penicillins

b. Aminoglycosides

c. Macrolides

d. Synthetic penicillins

e. Natural penicillins

131. A 63-year-old woman suffering from diabetic nephropathy with functional disturbance of the kidneys needs etiotropic treatment for focal pneumonia. What drug is **CONTRAINDICATED** in this case?

a. Natural penicillins

b. Macrolides

c. Synthetic penicillins

d. Aminoglycosides

e. Combined penicillins

132. A 63-year-old woman suffering from diabetic nephropathy with functional disturbance of the kidneys needs etiotropic treatment for focal pneumonia. What drug is **CONTRAINDICATED** in this case?

a. Synthetic penicillins

b. Natural penicillins

c. Macrolides

d. Combined penicillins

e. Aminoglycosides

133. A 65-year-old man has been taking nitroglycerin continuously for 2 months. Lately, he has been observing a gradual decrease in its clinical effect. Name the concept that describes this phenomenon:

a. Tolerance

b. Anaphylactic reaction

c. Reye syndrome

d. Withdrawal syndrome

e. Idiosyncrasy

134. A 65-year-old man has been taking nitroglycerin continuously for 2 months. Lately, he has been observing a gradual decrease in its clinical effect. Name the concept that describes this phenomenon:

a. Idiosyncrasy

b. Reye syndrome

c. Tolerance

d. Withdrawal syndrome

e. Anaphylactic reaction

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a. Reye syndrome

b. Tolerance

- c. Anaphylactic reaction
- d. Withdrawal syndrome
- e. Idiosyncrasy

136. A 65-year-old man with community-acquired pneumonia was prescribed antibiotic agent amikacin. It should be kept in mind, that amikacin has the following side-effect:

a. Ototoxicity

- b. Decreased blood pressure
- c. Increased blood pressure
- d. Red coloring of urine
- e. Vomiting

137. A 65-year-old man with community-acquired pneumonia was prescribed antibiotic agent amikacin. It should be kept in mind, that amikacin has the following side-effect:

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- b. Decreased blood pressure
- c. Red coloring of urine

d. Ototoxicity

e. Vomiting

138. A 65-year-old man with community-acquired pneumonia was prescribed antibiotic agent amikacin. It should be kept in mind, that amikacin has the following side-effect:

- a. Vomiting
- b. Decreased blood pressure
- c. Increased blood pressure
- d. Red coloring of urine

e. Ototoxicity

139. A 65-year-old patient diagnosed with ischemic heart disease was prescribed acetylsalicylic acid as an antiplatelet agent. What daily dose of this drug will have an antiplatelet effect?

a. 100 mg

- b. 200 mg
- c. 400 mg
- d. 500 mg
- e. 300 mg

140. A 65-year-old patient diagnosed with ischemic heart disease was prescribed acetylsalicylic acid as an antiplatelet agent. What daily dose of this drug will have an antiplatelet effect?

a. 100 mg

- b. 300 mg
- c. 400 mg
- d. 200 mg
- e. 500 mg

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a. 100 mg

- b. 500 mg
- c. 300 mg
- d. 400 mg
- e. 200 mg

142. A 67-year-old man with chronic heart failure takes digoxin. To reduce the side effects of digoxin, his doctor recommended him to combine this drug with:

a. Potassium aspartate and magnesium aspartate

- b. Hydrochlorothiazide
- c. Calcium gluconate
- d. Euphyllin (Aminophylline)
- e. Calcium chloride

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c. Potassium aspartate and magnesium aspartate

d. Euphyllin (Aminophylline)

e. Calcium gluconate

145. A 68-year-old man has been prescribed a hypolipidemic agent as a part of his combination therapy for ischemic heart disease. Name this drug:

a. Atorvastatin

b. Hydrochlorothiazide

c. Lisinopril

d. Nitroglycerine

e. Nifedipine

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a. Nifedipine

b. Lisinopril

c. Hydrochlorothiazide

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b. Lisinopril

c. Atorvastatin

d. Hydrochlorothiazide

e. Nifedipine

148. A 70-year-old patient with stenocardia claims that the pharmacy had sold him a drug that relieved an attack of stenocardia but instead caused an acute bursting headache. What antihypertensive drug is this side-effect typical of?

a. Nitrosorbid

b. Amlodipine

c. Trimetazidine

d. Metoprolol

e. Nifedipine

149. A 70-year-old patient with stenocardia claims that the pharmacy had sold him a drug that relieved an attack of stenocardia but instead caused an acute bursting headache. What antihypertensive drug is this side-effect typical of?

a. Nifedipine

b. Trimetazidine

c. Metoprolol

d. Amlodipine

e. Nitrosorbid

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a. Trimetazidine

b. Nifedipine

c. Metoprolol

d. Amlodipine

e. Nitrosorbid

151. A 74-year-old man came to the pharmacy. He had been prescribed ampicillin for antibiotic treatment of dysenteric gastroenterocolitis. What group of drugs should be recommended for dysbiosis prevention in this case?

a. Probiotics

- b. Antacids
- c. Enzymatic agents
- d. Immunosuppressants
- e. Sorbents

152. A 74-year-old man came to the pharmacy. He had been prescribed ampicillin for antibiotic treatment of dysenteric gastroenterocolitis. What group of drugs should be recommended for dysbiosis prevention in this case?

a. Immunosuppressants

b. Probiotics

- c. Enzymatic agents
- d. Sorbents
- e. Antacids

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- b. Sorbents
- c. Antacids

d. Probiotics

- e. Enzymatic agents

154. A certain drug can be quantitatively assessed by means of direct alkalimetry in glycerine, mannitol, or other polyhydric alcohol medium. This drug is:

a. Boric acid

- b. Acetylsalicylic acid
- c. Glutaminic acid
- d. Salicylic acid
- e. Benzoic acid

155. A certain drug can be quantitatively assessed by means of direct alkalimetry in glycerine, mannitol, or other polyhydric alcohol medium. This drug is:

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- c. Glutaminic acid
- d. Benzoic acid
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156. A certain drug can be quantitatively assessed by means of direct alkalimetry in glycerine, mannitol, or other polyhydric alcohol medium. This drug is:

- a. Benzoic acid
- b. Salicylic acid
- c. Glutaminic acid

d. Boric acid

- e. Acetylsalicylic acid

157. A certain drug explodes when heated to 180°C or upon impact and, therefore, must be handled carefully during receipt and storage. This drug is:

a. Nitroglycerine solution

- b. Activated carbon
- c. Alcoholic iodine solution
- d. Barium chloride
- e. Calcium chloride

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- a. Calcium chloride
- b. Activated carbon
- c. Barium chloride
- d. Alcoholic iodine solution

e. Nitroglycerine solution

160. A certain herbal raw material is used to make Flamin cholagogue. Name this material:

a. *Helichrysi arenarii* flores

- b. *Meliloti* herba
- c. *Tanaceti* flores
- d. *Violae* herba
- e. *Crataegi* flores

161. A certain herbal raw material is used to make Flamin cholagogue. Name this material:

- a. *Tanaceti* flores
- b. *Crataegi* flores
- c. *Violae* herba

d. *Helichrysi arenarii* flores

e. *Meliloti* herba

162. A certain herbal raw material is used to make Flamin cholagogue. Name this material:

- a. *Tanaceti* flores
- b. *Meliloti* herba
- c. *Crataegi* flores
- d. *Violae* herba

e. *Helichrysi arenarii* flores

163. A certain injection solution cannot undergo thermal sterilization, because high temperatures lead to its hydrolysis with formation of formaldehyde and ammonia. Name this solution:

a. Hexamethylenetetramine solution

- b. Glucose solution
- c. Aminazine solution
- d. Novocaine (procaine) solution
- e. Diprazine (promethazine) solution

164. A certain injection solution cannot undergo thermal sterilization, because high temperatures lead to its hydrolysis with formation of formaldehyde and ammonia. Name this solution:

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166. A certain management style can be characterized by the following features: the authority is highly centralized; work duties of the employees are very structured; the ability of employees to make decisions is extremely limited; strict compliance with numerous rules and regulations is prioritized. Name this management style:

a. Authoritarian

- b. Direct
- c. Liberal
- d. Democratic
- e. Collective

167. A certain management style can be characterized by the following features: the authority is highly centralized; work duties of the employees are very structured; the ability of employees to make decisions is extremely limited; strict compliance with numerous rules and regulations is prioritized. Name this management style:

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- a. Direct
- b. Liberal

c. Authoritarian

- d. Collective
- e. Democratic

169. A certain medicinal plant belongs to the Papaveraceae family. It produces a characteristic yellow milky sap and has choleretic, antiseptic, and diuretic properties. The main active substance contained in this plant is alkaloid chelidonine. Name this plant:

a. *Chelidonium majus*

- b. *Hyoscyamus niger*
- c. *Berberis vulgaris*
- d. *Papaver somniferum*
- e. *Atropa belladonna*

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- a. *Hyoscyamus niger*
- b. *Atropa belladonna*
- c. *Berberis vulgaris*

d. *Chelidonium majus*

e. *Papaver somniferum*

172. A certain pharmaceutical company is focused on the manufacture of medicines, while the sales play only a secondary role. What is the company's main type of business activity in this case?

a. Manufacture

- b. Finances
- c. Leasing
- d. Consulting services
- e. Insurance

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a. Insurance

b. Finances

c. Leasing

d. Consulting services

e. Manufacture

175. A certain primary document can be described as follows: "It is a document printed by a cash register, when it makes calculations regarding the goods sold". Specify this document:

a. Fiscal receipt for the goods sold (or services rendered)

b. Accounting form

c. Cash withdrawal receipt

d. Cash cheque

e. Payment order

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e. Accounting form

178. A certain substance is yellow, but does not leave a colored mark on the filter paper, mortar, and pestle. Powders with this substance are prepared according to the general rules. Name this substance:

a. Furacilin (Nitrofurazone)

b. Riboflavin

c. Sulfur

d. Methylene blue

e. Brilliant green

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a. Methylene blue

b. Furacilin (Nitrofurazone)

c. Riboflavin

d. Sulfur

e. Brilliant green

180. A certain substance is yellow, but does not leave a colored mark on the filter paper, mortar, and pestle. Powders with this substance are prepared according to the general rules. Name this substance:

a. Riboflavin

b. Sulfur

- c. Methylene blue
- d. Brilliant green
- e. Furacilin (Nitrofurantoin)

181. A certain type of herbal raw material is being collected in spring during sap flow. Specify this material:

a. Buds

b. Bark

c. Flowers

d. Roots

e. Infructescences

182. A certain type of herbal raw material is being collected in spring during sap flow. Specify this material:

a. Flowers

b. Buds

c. Bark

d. Roots

e. Infructescences

183. A certain type of herbal raw material is being collected in spring during sap flow. Specify this material:

a. Roots

b. Bark

c. Infructescences

d. Buds

e. Flowers

184. A company manager analyzes, how effectively the available material assets are used, and identifies and eliminates the deviations arising in the course of work. What type of control is it?

a. Final

b. Financial

c. Current

d. Preliminary

e. -

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a. Financial

b. Final

c. -

d. Current

e. Preliminary

187. A compound powder is being made of ingredients taken in relatively equal measure. What ingredients should be comminuted first?

a. Macrocrystalline

b. Coloring

c. Volatile

d. Colored

e. Microcrystalline

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a. Colored

b. Macrocrystalline

- c. Volatile
- d. Coloring
- e. Microcrystalline

189. A compound powder is being made of ingredients taken in relatively equal measure. What ingredients should be comminuted first?

- a. Microcrystalline
- b. Coloring

c. Macrocrystalline

- d. Volatile
- e. Colored

190. A control laboratory needs to analyze streptomycin powder for injections. To identify it according to the State Pharmacopoeia of Ukraine sodium hydroxide is added into the dissolved powder, the resulting substance is heated, and then iron (III) chloride solution is added, which results in violet coloring of the substance. This test is known as:

a. Maltol test

- b. Thiochrome test
- c. Ninhydrin test
- d. Biuret test
- e. Vitali-Morin reaction

191. A control laboratory needs to analyze streptomycin powder for injections. To identify it according to the State Pharmacopoeia of Ukraine sodium hydroxide is added into the dissolved powder, the resulting substance is heated, and then iron (III) chloride solution is added, which results in violet coloring of the substance. This test is known as:

a. Vitali-Morin reaction

b. Maltol test

- c. Biuret test
- d. Thiochrome test
- e. Ninhydrin test

192. A control laboratory needs to analyze streptomycin powder for injections. To identify it according to the State Pharmacopoeia of Ukraine sodium hydroxide is added into the dissolved powder, the resulting substance is heated, and then iron (III) chloride solution is added, which results in violet coloring of the substance. This test is known as:

- a. Vitali-Morin reaction
- b. Thiochrome test

c. Maltol test

- d. Ninhydrin test
- e. Biuret test

193. A decoction of Bidens grass has an anti-allergic effect and is often used in pediatrics. What species of this plant is pharmacopoeial?

- a. Bidens aurea
- b. Bidens frondosa

c. Bidens tripartita

- d. Bidens radiata
- e. Bidens cernua

194. A decoction of Bidens grass has an anti-allergic effect and is often used in pediatrics. What species of this plant is pharmacopoeial?

- a. Bidens aurea
- b. Bidens frondosa
- c. Bidens radiata
- d. Bidens cernua

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- a. Bidens frondosa

b. Bidens tripartita

- c. Bidens aurea
- d. Bidens cernua
- e. Bidens radiata

196. A dispensing chemist has a total insured work record of 10 years. It means that the dispensing chemist can expect the following amount of temporary disability benefits:

- a. 50% of the average salary
- b. 70% of the average salary
- c. 100% of the average salary**
- d. 60% of the average salary
- e. 80% of the average salary

197. A dispensing chemist has a total insured work record of 10 years. It means that the dispensing chemist can expect the following amount of temporary disability benefits:

- a. 60% of the average salary
- b. 100% of the average salary**
- c. 70% of the average salary
- d. 50% of the average salary
- e. 80% of the average salary

198. A dispensing chemist has a total insured work record of 10 years. It means that the dispensing chemist can expect the following amount of temporary disability benefits:

- a. 80% of the average salary
- b. 60% of the average salary
- c. 100% of the average salary**
- d. 70% of the average salary
- e. 50% of the average salary

199. A dispensing chemist has dispensed to a pharmacy visitor one package of metformin tablets according to the family doctor's electronic prescription. This purchase is to be reimbursed. How long must a pharmacy keep such prescriptions?

- a. Three years after the current one**
- b. Five years after the current one
- c. Return the prescription to the pharmacy visitor
- d. One month after the current one
- e. Two months after the current one

200. A dispensing chemist has dispensed to a pharmacy visitor one package of metformin tablets according to the family doctor's electronic prescription. This purchase is to be reimbursed. How long must a pharmacy keep such prescriptions?

- a. Three years after the current one**
- b. Return the prescription to the pharmacy visitor
- c. Two months after the current one
- d. One month after the current one
- e. Five years after the current one

201. A dispensing chemist has dispensed to a pharmacy visitor one package of metformin tablets according to the family doctor's electronic prescription. This purchase is to be reimbursed. How long must a pharmacy keep such prescriptions?

- a. One month after the current one
- b. Two months after the current one
- c. Three years after the current one**
- d. Return the prescription to the pharmacy visitor
- e. Five years after the current one

202. A dispensing chemist has received his salary with a bonus for working at night. This bonus is paid for the following working hours:

- a. From 20.00 to 9.00
- b. From 24.00 to 8.00
- c. From 22.00 to 6.00**
- d. From 23.00 to 7.00

e. From 21.00 to 9.00

203. A dispensing chemist has received his salary with a bonus for working at night. This bonus is paid for the following working hours:

- a. From 23.00 to 7.00
- b. From 20.00 to 9.00
- c. From 24.00 to 8.00
- d. From 21.00 to 9.00

e. From 22.00 to 6.00

204. A dispensing chemist has received his salary with a bonus for working at night. This bonus is paid for the following working hours:

- a. From 23.00 to 7.00
- b. From 24.00 to 8.00
- c. From 21.00 to 9.00
- d. From 20.00 to 9.00

e. From 22.00 to 6.00

205. A dispensing chemist identifies metronidazole substance after reduction of the nitro group into an aromatic amino group. The dispensing chemist uses a reaction that produces the following:

- a. Aurine dye
- b. Azomethine dye

c. Azo dye

- d. Iron(III) hydroxamate
- e. Indophenol dye

206. A dispensing chemist identifies metronidazole substance after reduction of the nitro group into an aromatic amino group. The dispensing chemist uses a reaction that produces the following:

- a. Indophenol dye
- b. Aurine dye

c. Azo dye

- d. Iron(III) hydroxamate
- e. Azomethine dye

207. A dispensing chemist identifies metronidazole substance after reduction of the nitro group into an aromatic amino group. The dispensing chemist uses a reaction that produces the following:

- a. Indophenol dye
- b. Azomethine dye
- c. Iron(III) hydroxamate

d. Azo dye

e. Aurine dye

208. A dispensing chemist makes a research into the pharmaceutical market. For this purpose he uses scientific publications and statistical data. What type of marketing research is it?

a. Theoretical research

- b. Field research
- c. Survey
- d. Panel research
- e. Observation

209. A dispensing chemist makes a research into the pharmaceutical market. For this purpose he uses scientific publications and statistical data. What type of marketing research is it?

a. Observation

b. Theoretical research

- c. Panel research
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- a. Panel research
- b. Field research

c. Theoretical research

- d. Survey
- e. Observation

211. A dispensing chemist performs quantitative determination of nifedipine substance, using the method of cerimetry. What indicator should be used in this method, according to the State Pharmacopoeia of Ukraine?

- a. Bromphenol blue
- b. Methyl orange

c. Ferroin

- d. Potassium chromate
- e. Phenolphthalein

212. A dispensing chemist performs quantitative determination of nifedipine substance, using the method of cerimetry. What indicator should be used in this method, according to the State Pharmacopoeia of Ukraine?

- a. Bromphenol blue
- b. Methyl orange
- c. Phenolphthalein
- d. Potassium chromate

e. Ferroin

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- a. Phenolphthalein
- b. Potassium chromate
- c. Methyl orange
- d. Bromphenol blue

e. Ferroin

214. A dispensing chemist specifies the name of a herbal raw material, its mass, the area where it has been harvested, and the date of harvest. Name this procedure:

- a. Harvesting of herbal raw material

b. Marking of herbal raw material

- c. Sorting of herbal raw material
- d. Standardization of herbal raw material
- e. Packing of herbal raw material

215. A dispensing chemist specifies the name of a herbal raw material, its mass, the area where it has been harvested, and the date of harvest. Name this procedure:

- a. Standardization of herbal raw material
- b. Packing of herbal raw material
- c. Sorting of herbal raw material
- d. Harvesting of herbal raw material

e. Marking of herbal raw material

216. A dispensing chemist specifies the name of a herbal raw material, its mass, the area where it has been harvested, and the date of harvest. Name this procedure:

- a. Standardization of herbal raw material
- b. Sorting of herbal raw material
- c. Packing of herbal raw material
- d. Harvesting of herbal raw material

e. Marking of herbal raw material

217. A dispensing chemist uses iodometry (back titration) for quantitative determination of caffeine medicinal substance. What indicator is used in this case?

a. Starch

- b. Phenolphthalein
- c. Eriochrome black
- d. Phenol red
- e. Litmus paper

218. A dispensing chemist uses iodometry (back titration) for quantitative determination of caffeine

medicinal substance. What indicator is used in this case?

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- b. Eriochrome black

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- d. Phenol red
- e. Phenolphthalein

219. A dispensing chemist uses iodometry (back titration) for quantitative determination of caffeine medicinal substance. What indicator is used in this case?

- a. Litmus paper
- b. Eriochrome black
- c. Phenolphthalein
- d. Phenol red

e. Starch

220. A dispensing chemist was hired to work a night shift at a pharmacy. What time is considered to be a night time according to the Ukrainian legislation currently in force?

a. From 22:00 to 6:00

- b. From 22:00 to 10:00
- c. From 22:00 to 7:00
- d. From 21:00 to 6:00
- e. From 00:00 to 8:00

221. A dispensing chemist was hired to work a night shift at a pharmacy. What time is considered to be a night time according to the Ukrainian legislation currently in force?

a. From 21:00 to 6:00

b. From 22:00 to 6:00

- c. From 22:00 to 7:00
- d. From 00:00 to 8:00
- e. From 22:00 to 10:00

222. A dispensing chemist was hired to work a night shift at a pharmacy. What time is considered to be a night time according to the Ukrainian legislation currently in force?

- a. From 22:00 to 10:00
- b. From 21:00 to 6:00
- c. From 00:00 to 8:00
- d. From 22:00 to 7:00

e. From 22:00 to 6:00

223. A dispensing chemist with calculated length of service of 7 years has fallen ill. What percent of the sum stated in her sick list would she receive?

a. 80%

- b. 100%
- c. 60%
- d. 70%
- e. 50%

224. A dispensing chemist with calculated length of service of 7 years has fallen ill. What percent of the sum stated in her sick list would she receive?

a. 80%

- b. 50%
- c. 60%
- d. 70%
- e. 100%

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- a. 100%
- b. 50%

c. 80%

- d. 60%
- e. 70%

226. A dispensing chemist-analyst identifies phenol, using a phenolic hydroxyl reaction. What reagent is necessary for this reaction?

- a. Calcium chloride
- b. Sodium sulfate
- c. Sulfuric acid
- d. Potassium chloride

e. Iron(III) chloride

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- a. Sodium sulfate
- b. Potassium chloride

c. Iron(III) chloride

- d. Calcium chloride
- e. Sulfuric acid

229. A dispensing chemist-technologist has accepted a prescription for eye drops with adrenaline hydrochloride. What characteristic of adrenaline hydrochloride must be taken into account, when preparing the eye drops?

a. Thermolability

- b. Volatility
- c. Low solubility in water
- d. Poor solubility in water
- e. Thermal stability

230. A dispensing chemist-technologist has accepted a prescription for eye drops with adrenaline hydrochloride. What characteristic of adrenaline hydrochloride must be taken into account, when preparing the eye drops?

- a. Low solubility in water
- b. Poor solubility in water
- c. Thermal stability
- d. Volatility

e. Thermolability

231. A dispensing chemist-technologist has accepted a prescription for eye drops with adrenaline hydrochloride. What characteristic of adrenaline hydrochloride must be taken into account, when preparing the eye drops?

- a. Thermal stability
- b. Low solubility in water

c. Thermolability

- d. Poor solubility in water
- e. Volatility

232. A doctor has asked a dispensing chemist for consultation on free dispensation of medicines. What free drugs can the doctor prescribe to an epileptic patient for outpatient treatment?

- a. Only imported drugs
- b. Any drugs registered for distribution in Ukraine
- c. Only vital drugs

d. Only the drugs from the list of approved procurements for budget-financed healthcare facilities

e. Only drugs produced domestically

233. A doctor has asked a dispensing chemist for consultation on free dispensation of medicines. What free drugs can the doctor prescribe to an epileptic patient for outpatient treatment?

- a. Only vital drugs

- b. Any drugs registered for distribution in Ukraine
- c. Only drugs produced domestically
- d. Only imported drugs

e. Only the drugs from the list of approved procurements for budget-financed healthcare facilities

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- a. Only vital drugs
- b. Only imported drugs
- c. Only drugs produced domestically

d. Only the drugs from the list of approved procurements for budget-financed healthcare facilities

e. Any drugs registered for distribution in Ukraine

235. A doctor has given the patient a prescription for tramadol. What prescription form must be used in this case?

a. 2 copies of F-3 form

b. F-3 form

- c. 2 copies of F-1 form
- d. F-1 form
- e. F-1 and F-3 forms

236. A doctor has given the patient a prescription for tramadol. What prescription form must be used in this case?

a. 2 copies of F-3 form

b. 2 copies of F-1 form

c. F-3 form

- d. F-1 and F-3 forms
- e. F-1 form

237. A doctor has given the patient a prescription for tramadol. What prescription form must be used in this case?

a. F-1 form

b. F-1 and F-3 forms

c. 2 copies of F-1 form

d. 2 copies of F-3 form

e. F-3 form

238. A doctor has prescribed a mixture containing several types of herbal raw material. Extracts of the following raw materials can be obtained in one infusion apparatus:

- a. Mint leaves, Althaea roots
- b. Mint leaves, flax seeds
- c. Mint leaves, buckthorn bark

d. Mint leaves, chamomile flowers

e. Mint leaves, Arctostaphylos leaves

239. A doctor has prescribed a mixture containing several types of herbal raw material. Extracts of the following raw materials can be obtained in one infusion apparatus:

- a. Mint leaves, Arctostaphylos leaves
- b. Mint leaves, buckthorn bark
- c. Mint leaves, Althaea roots
- d. Mint leaves, flax seeds

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- a. Mint leaves, buckthorn bark
- b. Mint leaves, Althaea roots

c. Mint leaves, chamomile flowers

- d. Mint leaves, Arctostaphylos leaves
- e. Mint leaves, flax seeds

241. A doctor has prescribed pessaries of unspecified mass. What mass should be chosen when pessaries are being prepared in a pharmacy?

- a. 0,5
- b. 1,5
- c. 3,0
- d. 6,0
- e. 4,0**

242. A doctor has prescribed pessaries of unspecified mass. What mass should be chosen when pessaries are being prepared in a pharmacy?

- a. 3,0
- b. 1,5
- c. 6,0
- d. 0,5
- e. 4,0**

243. A doctor has prescribed pessaries of unspecified mass. What mass should be chosen when pessaries are being prepared in a pharmacy?

- a. 6,0
- b. 4,0**

- c. 1,5
- d. 3,0
- e. 0,5

244. A doctor has written the following prescription for the preparation of a dosage form: Unguenti Benzylpenicillini-natrii 10.0 Misce. Da. Signa: Apply under the eyelid 3 times a day endtabular. What base should be used to make this ointment?

- a. 10.0 of vaseline (petroleum jelly) "for eye ointments"
- b. A mixture of vaseline (petroleum jelly) "for eye ointments" and anhydrous lanolin (5:5)
- c. A mixture of vaseline (petroleum jelly) "for eye ointments" and anhydrous lanolin (6:4)**
- d. A mixture of vaseline (petroleum jelly) "for eye ointments" and anhydrous lanolin (7:3)
- e. A mixture of paraffin and sunflower oil (3:7)

245. A doctor has written the following prescription for the preparation of a dosage form: Unguenti Benzylpenicillini-natrii 10.0 Misce. Da. Signa: Apply under the eyelid 3 times a day endtabular. What base should be used to make this ointment?

- a. A mixture of paraffin and sunflower oil (3:7)
- b. A mixture of vaseline (petroleum jelly) "for eye ointments" and anhydrous lanolin (7:3)
- c. 10.0 of vaseline (petroleum jelly) "for eye ointments"
- d. A mixture of vaseline (petroleum jelly) "for eye ointments" and anhydrous lanolin (6:4)**
- e. A mixture of vaseline (petroleum jelly) "for eye ointments" and anhydrous lanolin (5:5)

246. A doctor has written the following prescription for the preparation of a dosage form: Unguenti Benzylpenicillini-natrii 10.0 Misce. Da. Signa: Apply under the eyelid 3 times a day endtabular. What base should be used to make this ointment?

- a. A mixture of vaseline (petroleum jelly) "for eye ointments" and anhydrous lanolin (5:5)
- b. A mixture of vaseline (petroleum jelly) "for eye ointments" and anhydrous lanolin (7:3)
- c. A mixture of paraffin and sunflower oil (3:7)
- d. A mixture of vaseline (petroleum jelly) "for eye ointments" and anhydrous lanolin (6:4)**
- e. 10.0 of vaseline (petroleum jelly) "for eye ointments"

247. A doctor prescribed amoxicillin to a patient to treat bronchitis. What mucolytic is synergistic with this antibiotic?

- a. Ambroxol**
- b. Glaucine
- c. Dextromethorphan
- d. Euphylline (Theophylline)
- e. Codeine

248. A doctor prescribed amoxicillin to a patient to treat bronchitis. What mucolytic is synergistic with this antibiotic?

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- c. Euphylline (Theophylline)

- d. Glaucone
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249. A doctor prescribed amoxicillin to a patient to treat bronchitis. What mucolytic is synergistic with this antibiotic?

- a. Dextromethorphan
- b. Ambroxol**
- c. Glaucone
- d. Codeine
- e. Euphylline (Theophylline)

250. A doctor prescribed the drug simvastatin to the patient to correct hyperlipidemia. Why should the selected daily dose be taken once in the evening?

- a. Absorption of the drug increases at night
- b. Cholesterol biosynthesis occurs mainly at night**
- c. Receptor sensitivity to low-density lipoproteins increases
- d. Risk of myopathy decreases
- e. Catabolism rate of low-density lipoproteins increases

251. A doctor prescribed the drug simvastatin to the patient to correct hyperlipidemia. Why should the selected daily dose be taken once in the evening?

- a. Catabolism rate of low-density lipoproteins increases
- b. Absorption of the drug increases at night
- c. Risk of myopathy decreases
- d. Receptor sensitivity to low-density lipoproteins increases
- e. Cholesterol biosynthesis occurs mainly at night**

252. A doctor prescribed the drug simvastatin to the patient to correct hyperlipidemia. Why should the selected daily dose be taken once in the evening?

- a. Receptor sensitivity to low-density lipoproteins increases
- b. Risk of myopathy decreases
- c. Catabolism rate of low-density lipoproteins increases
- d. Cholesterol biosynthesis occurs mainly at night**
- e. Absorption of the drug increases at night

253. A domestic pharmaceutical company introduces to the market a generic drug at a significantly lower price than its imported brand name counterparts. What pricing strategy has this domestic company chosen?

- a. "Skim-the-cream" strategy
- b. Tender pricing strategy
- c. Following the leader
- d. Deep penetration into the market**

254. A domestic pharmaceutical company introduces to the market a generic drug at a significantly lower price than its imported brand name counterparts. What pricing strategy has this domestic company chosen?

- a. Following the leader
- b. Tender pricing strategy
- c. "Skim-the-cream" strategy
- d. -
- e. Deep penetration into the market**

255. A domestic pharmaceutical company introduces to the market a generic drug at a significantly lower price than its imported brand name counterparts. What pricing strategy has this domestic company chosen?

- a. Tender pricing strategy
- b. "Skim-the-cream" strategy
- c. Deep penetration into the market**
- d. Following the leader
- e. -

256. A drug quality control laboratory performs certification of antibiotics. What antibiotic has

alpha-amino acid residue that can be determined using the ninhydrin reaction?

- a. Cefazolin
- b. Ampicillin**
- c. Lincomycin
- d. Oxacillin
- e. Chloramphenicol

257. A drug quality control laboratory performs certification of antibiotics. What antibiotic has alpha-amino acid residue that can be determined using the ninhydrin reaction?

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- b. Ampicillin**
- c. Chloramphenicol
- d. Oxacillin
- e. Cefazolin

258. A drug quality control laboratory performs certification of antibiotics. What antibiotic has alpha-amino acid residue that can be determined using the ninhydrin reaction?

- a. Lincomycin
- b. Oxacillin
- c. Chloramphenicol
- d. Ampicillin**
- e. Cefazolin

259. A drug that is subject to reimbursement has been dispensed at a pharmacy based on an electronic prescription. How long such a prescription must be stored in the information and telecommunications system?

- a. 2 years
- b. 5 years
- c. 6 months
- d. 3 months
- e. 3 years**

260. A drug that is subject to reimbursement has been dispensed at a pharmacy based on an electronic prescription. How long such a prescription must be stored in the information and telecommunications system?

- a. 2 years
- b. 6 months
- c. 3 months
- d. 5 years
- e. 3 years**

261. A drug that is subject to reimbursement has been dispensed at a pharmacy based on an electronic prescription. How long such a prescription must be stored in the information and telecommunications system?

- a. 3 months
- b. 5 years
- c. 6 months
- d. 3 years**
- e. 2 years

262. A factory that manufactures vitamin preparations has received a batch of herbal raw material. It consists of round wrinkled orange-red fruits that taste sweet-sour and slightly tarty. The fruits are up to 3 cm long, 1.5 cm in diameter, and are filled with hard small angular yellow nutlets. The nutlets and the inner surface of the fruits are covered with long and extremely coarse bristly down. This herbal raw material can be identified as:

- a. Fructus Rosae**
- b. Fructus Ribis nigri
- c. Fructus Viburni
- d. Fructus Hippophaes
- e. Fructus Sorbi

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consists of round wrinkled orange-red fruits that taste sweet-sour and slightly tart. The fruits are up to 3 cm long, 1.5 cm in diameter, and are filled with hard small angular yellow nutlets. The nutlets and the inner surface of the fruits are covered with long and extremely coarse bristles. This herbal raw material can be identified as:

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a. Fructus Sorbi

b. Fructus Viburni

c. Fructus Hippophaes

d. Fructus Rosae

e. Fructus Ribis nigri

265. A factory workshop producing suspensions and emulsions is going to develop the manufacture of new drugs. What mechanisms can be used for the ultrasound processing of drugs?

a. Dismembrator, electrical impulse plasmolyzer

b. Disintegrator, liquid whistle

c. Centrifugal mixer with rotating housing

d. Liquid whistle, magnetostrictive source

e. Rotor-pulsation apparatus, dismembrator

266. A factory workshop producing suspensions and emulsions is going to develop the manufacture of new drugs. What mechanisms can be used for the ultrasound processing of drugs?

a. Rotor-pulsation apparatus, dismembrator

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267. A factory workshop producing suspensions and emulsions is going to develop the manufacture of new drugs. What mechanisms can be used for the ultrasound processing of drugs?

a. Rotor-pulsation apparatus, dismembrator

b. Disintegrator, liquid whistle

c. Centrifugal mixer with rotating housing

d. Liquid whistle, magnetostrictive source

e. Dismembrator, electrical impulse plasmolyzer

268. A folic acid molecule has a heterocyclic system, consisting of two condensed heterocycles - pyrimidine and pyrazine. Name this system:

a. Isoalloxazine

b. Pteridine

c. Corrin

d. Phenothiazine

e. Purine

269. A folic acid molecule has a heterocyclic system, consisting of two condensed heterocycles - pyrimidine and pyrazine. Name this system:

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d. Phenothiazine

e. Purine

270. A folic acid molecule has a heterocyclic system, consisting of two condensed heterocycles -

pyrimidine and pyrazine. Name this system:

- a. Purine
- b. Isoalloxazine
- c. Pteridine**
- d. Phenothiazine
- e. Corrin

271. A formaldehyde solution was received for analysis. What reagent should be used to identify this substance?

- a. Acetic acid
- b. Sulfuric acid
- c. Tartaric acid
- d. Benzoic acid
- e. Chromotropic acid**

272. A formaldehyde solution was received for analysis. What reagent should be used to identify this substance?

- a. Sulfuric acid
- b. Benzoic acid
- c. Chromotropic acid**
- d. Tartaric acid
- e. Acetic acid

273. A formaldehyde solution was received for analysis. What reagent should be used to identify this substance?

- a. Tartaric acid
- b. Benzoic acid
- c. Sulfuric acid
- d. Acetic acid
- e. Chromotropic acid**

274. A group of independent intermediaries operates on a regional market. They sell medicines on their own behalf and at their own cost. Such intermediaries are called:

- a. Brokers
- b. Dealers**
- c. Agents
- d. Consignees
- e. Commission agents

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- a. Commission agents
- b. Dealers**
- c. Brokers
- d. Agents
- e. Consignees

276. A group of independent intermediaries operates on a regional market. They sell medicines on their own behalf and at their own cost. Such intermediaries are called:

- a. Commission agents
- b. Agents
- c. Consignees
- d. Brokers
- e. Dealers**

277. A herbal mix contains Cortex Frangulae, Folia Urticae, and Herba Millefolii. Name the characteristic microscopic features that allow identification of Folia Urticae herbal raw material:

- a. Bast fibers, tracheids, starch, vessels
- b. Capitulate, flask-shaped, and stinging hairs; cystoliths; vessels of the conducting bundle, veins, druses of calcium oxalate**
- c. T-shaped hairs along the leaf margin
- d. Many-armed, two-armed, and simple hairs

e. Simple capitate hairs

278. A herbal mix contains Cortex Frangulae, Folia Urticae, and Herba Millefolii. Name the characteristic microscopic features that allow identification of Folia Urticae herbal raw material:

a. Bast fibers, tracheids, starch, vessels

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d. Capitate, flask-shaped, and stinging hairs; cystoliths; vessels of the conducting bundle, veins, druses of calcium oxalate

e. Many-armed, two-armed, and simple hairs

280. A herbal raw material (fruits) was sent for analysis. This material consists of glossy black drupes 8 mm in diameter with one large spherical light-brown seed that is very firm. Its chemical analysis showed the presence of condensed tannins. What plant is the source of this herbal raw material?

a. Rhamnus cathartica

b. Ribes nigrum

c. Schisandra chinensis

d. Prunus padus

e. Vaccinium myrtillus

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283. A herbal raw material that contains alkaloids is being identified using a freshly prepared tannin solution. What precipitate forms as a result of this reaction?

a. Green

b. Creamy

c. Yellow

d. Red-brown

e. White and amorphous

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286. A herbal raw material that contains coumarin and chromone derivatives is a source of drugs with thrombolytic, photosensitizing, and antispasmodic action. Which compound in this group has a proven photosensitizing effect?

- a. Free coumarin
- b. Furanochromon kelin
- c. Furocoumarin psoralen**
- d. Pyranocoumarin visnadin
- e. Hydroxycoumarin esculin

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289. A herbal raw material was sent for analysis. The material consists of cylindrical pieces of roots of varying length, covered with a brown, longitudinally wrinkled bark. When peeled, the raw material externally varies in color from light yellow to brownish yellow and is light yellow and very fibrous on section. Its smell is faint. Its taste is sweet and slightly irritating. What herbal raw material is being analyzed in this case?

- a. Glycyrrhiza roots**
- b. Berberis roots
- c. Taraxacum roots
- d. Aralia mandshurica roots
- e. Panax ginseng roots

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- c. Panax ginseng roots
- d. Glycyrrhiza roots**

e. Aralia mandshurica roots

292. A herbal raw material was sent for analysis: rounded cordate leaves with incised margins that are irregularly, coarsely, and finely toothed; the upper leaf surface is naked, while its lower surface is covered in white down. Leaf petioles are thin, with a groove on the upper part, often downy. Leaf blade length is usually 8-15 cm, a petiole is approximately 5 cm long. The upper leaf surface is green, while the lower leaf surface is whitish-gray. No odor. The taste is slightly bitter with a slimy texture.

What herbal raw material is it?

- a. Folia Eucalypti
- b. Folia Farfarae**
- c. Folia Uvae-ursi
- d. Folia Urticae
- e. Folia Menthae

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295. A lactone test was conducted to verify the authenticity of Melilotus grass. What group of compounds can be detected using this test?

- a. Lignans
- b. Anthracene derivatives

c. Coumarins

- d. Cardiac glycosides
- e. Saponins

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298. A large pharmaceutical company produces a homogeneous selection of medicinal products and sells them on the domestic market. What model of marketing service organization was chosen by this company?

a. Functional

- b. Segment-oriented
- c. Market-oriented
- d. Product-oriented
- e. Regional

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- e. Segment-oriented

301. A man came to a pharmacist and asked to recommend him a herbal tonic and adaptogen. What herbal raw material has such a pharmacological effect?

- a. Flax seeds
- b. Pumpkin seeds
- c. Silybum fruits

d. Schisandra seeds

- e. Fennel fruits

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304. A man came to a pharmacy asking for a litholytic and diuretic drug <<Marelin>>. If there is no such drug in the pharmacy, powdered roots and rhizomes of a certain plant can be recommended as a substitute. Name this plant:

- a. Dryopteris filix-mas

b. Rubia tinctorum

- c. *Rhodiola rosea*
- d. *Sanguisorba officinalis*
- e. *Valeriana officinalis*

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c. *Rubia tinctorum*

- d. *Valeriana officinalis*
- e. *Rhodiola rosea*

307. A man came to the ophthalmologist complaining of poor twilight vision. Having collected the patient's medical history, the doctor suspected that these signs could be caused by the lack of a certain vitamin. What vitamin is likely to be deficient in this case?

- a. Ergocalciferol
- b. Cholecalciferol
- c. Phylloquinone (Phytomenadione)
- d. Tocopherol

e. Retinol

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310. A man has bought nitroglycerine for sublingual administration in a pharmacy. He wants to know, what side effect might develop after taking this medicine:

- a. Dry cough
- b. Increased blood pressure
- c. Urinary retention

d. Headache

- e. Drowsiness

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313. A man with arterial hypertension has blood pressure of 160/100 mm Hg and heart rate of 64/min. and presents with signs of fluid retention (pastose shins, dyspnea, etc.). What hypotensive agent is the drug of choice in case of edema syndrome?

a. Enalapril

b. Amlodipine

c. Losartan

d. Hydrochlorothiazide

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316. A man with arterial hypertension was recommended the following to increase the antihypertensive effect of a diuretic:

a. Increase the amount of liquids in the diet

b. Decrease the amount of table salt in the diet

c. Increase the amount of table salt in the diet

d. Increase the physical exertion

e. Decrease the physical exertion

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319. A man with arterial hypertension was taking a beta blocker (bisoprolol) for a long time. When his

condition improved, he suddenly stopped taking this drug and it resulted in an acute increase of his blood pressure. What complication of the therapy is it?

a. Withdrawal syndrome

- b. Bradycardia
- c. Bronchospasm
- d. Reduced sensitivity
- e. Dysbacteriosis

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322. A man with gastric ulcer is prescribed anti-Helicobacter pylori therapy. On the 3rd day the patient developed black coloring of feces. What had caused such changes?

a. Omeprazole

b. Bismuth subcitrate

- c. Metronidazole
- d. Tetracycline
- e. Tinidazole

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325. A manager of a wholesale pharmaceutical company is responsible for relaying various tasks to the employees and supervises the fulfillment of assigned tasks. What management level corresponds with these duties?

a. Administrative

b. Technical

- c. Top-level
- d. Institutional
- e. Middle-level

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328. A manufacturer plans to sell its new medicine directly to the consumers through its own network of pharmacies. What type of distribution channel is it?

a. Direct distribution channel (zero channel)

- b. Three-level distribution channel
- c. Four-level distribution channel
- d. Two-level distribution channel
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331. A manufacturing company initiates changes to the package insert of a drug, which are aimed at limitation of its use. What type of marketing is used by the company in this case?

a. Counteractive

- b. Conversion
- c. Synchromarketing
- d. Stimulating
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334. A marketer of a pharmaceutical enterprise uses primary and secondary marketing information for market analysis. What information is considered to be primary?

- a. Collected for the first time for a specific purpose
- b. Published in mass media
- c. Published in the company's annual report
- d. Published in statistical reference books
- e. Obtained from publications in scientific magazines

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337. A marketing consultancy was comparing various drugs containing salbutamol. It was using such parameters as the cost of a treatment course, width of a distribution channel, frequency of medications, etc. The consultancy was determining the:

- a. Life cycle stage of the drugs
- b. Competitiveness of the drugs
- c. Market stability
- d. Novelty of the drugs
- e. Quality of the drugs

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339. A marketing study found that the main group of consumers of venotonics are women aged 40 to 60 years. What principle is used for market segmentation in this case?

- a. Behavioral approach
- b. Geographical approach
- c. Demographic approach
- d. Psychographic approach
- e. -

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- b. -

c. Demographic approach

d. Geographical approach

e. Behavioral approach

342. A medical facility located in Kyiv buys its diagnostic tools from a domestic manufacturer. What level of distribution channel is it?

a. One-level channel

b. Three-level channel

c. Four-level channel

d. Zero-level channel

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345. A medical facility purchases antitumor drugs directly from a domestic manufacturer. What is the level of the sales channel used in this case?

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348. A medical product reaches its final consumer according to the following scheme: manufacturer → wholesale house → pharmacy → final consumer. Determine the level of the distribution channel:

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351. A medicinal plant contains hydroxycoumarins and is used in production of venotonic agents. Name the herbal raw material harvested from this plant:

- a. Semina Hippocastani**
- b. Fructus Dauci carotae
- c. Herba Meliloti
- d. Fructus Pastinacae sativae
- e. Fructus Ammi majoris

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354. A medicine has caused a side effect in the patient due to the patient's hereditary defect of the enzymatic system. This phenomenon is called:

- a. Idiosyncrasy**
- b. Drug dependence
- c. Withdrawal syndrome
- d. Allergic response
- e. Dysbiosis

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357. A new medicine has appeared on the Ukrainian pharmaceutical market. It is characterized by low sales, low profits, and large marketing expenses for advertising. What stage of the product life cycle is it?

- a. Decline
- b. Saturation
- c. Maturity
- d. Growth

e. Introduction

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360. A pharmacist makes powders by grinding one of the formulation components with ethyl alcohol. This technology is typically applied when working with the following substance:

- a. Bolus alba
- b. Starch

c. Streptocid

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363. A patient came to a pharmacy to buy a herbal antidepressant containing condensed anthracene derivatives and flavonoids. What herbal raw material is used to make this drug?

a. Hyperici herba

- b. Urticae folia
- c. Uvae ursi folia
- d. Filicis maris rhizomata
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366. A patient complaining of stuffy nose, fatigability, and headache came to a dispensing chemist. What medicine should be recommended to treat stuffy nose in this case?

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- b. Dexamethasone
- c. Acyclovir
- d. Paracetamol
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a. ACE inhibitors

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d. ACE inhibitors

- e. Antipsychotics

371. A patient developed dry cough while undergoing pharmacotherapy for arterial hypertension. What group of drugs can be characterized by this side effect?

- a. Tranquilizers
- b. Calcium antagonists
- c. Antipsychotics

d. ACE inhibitors

- e. Antacids

372. A patient diagnosed with acute rhinitis was using xylometazoline drops. After 7 days of

treatment, the patient notes that the effect of the medicine decreased and was not restored after an increase in the dosage. What medical term characterizes a sudden decrease in the sensitivity to a medicine?

a. Tachyphylaxis

- b. Tolerance
- c. Synergism
- d. Antagonism
- e. Withdrawal syndrome

373. A patient diagnosed with acute rhinitis was using xylometazoline drops. After 7 days of treatment, the patient notes that the effect of the medicine decreased and was not restored after an increase in the dosage. What medical term characterizes a sudden decrease in the sensitivity to a medicine?

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- c. Withdrawal syndrome
- d. Synergism

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- d. Antagonism
- e. Synergism

375. A patient diagnosed with hypertension and bronchial asthma had a bronchospasm attack, while undergoing therapy. What drug has most likely caused this complication?

a. Propranolol

- b. Fenoterol
- c. Nitroglycerin
- d. Amlodipine
- e. Verapamil

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378. A patient from the oncology department came to a pharmacy with a prescription for a drug that is needed for the treatment of his main disease. How will the pharmacist provide this medicine?

a. 100% free

- b. With a 10% discount
- c. For the full cost
- d. With a 25% discount
- e. For 50% of the cost

379. A patient from the oncology department came to a pharmacy with a prescription for a drug that

is needed for the treatment of his main disease. How will the pharmacist provide this medicine?

- a. With a 10% discount
- b. For 50% of the cost
- c. With a 25% discount
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- a. With a 25% discount
- b. For the full cost
- c. For 50% of the cost
- d. With a 10% discount

e. 100% free

381. A patient has been diagnosed with essential hypertension and prescribed an adequate treatment with antihypertensive drugs. However, two months later the patient began to notice a slight cough. What drug can cause this side effect?

- a. -
- b. Furosemide
- c. Hypothiazide (Hydrochlorothiazide)
- d. Amlodipine

e. Captopril

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384. A patient has been receiving palliative treatment with morphine hydrochloride for a week. Following that the patient demands continuation of this treatment. What phenomenon has occurred in this case?

a. Dependence

- b. Cumulation
- c. Tolerance
- d. Potentiation
- e. Summation

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387. A patient is 20 years old. After she was stung by a bee the patient developed Quincke's disease; rash in the form of blisters and papulae appeared on her torso. First aid in this case should start with administering the following drug:

- a. Fresh frozen plasma
- b. Haemodes
- c. Rheopolyglukin (Dextran)
- d. Penicillin

e. Prednisolone

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390. A patient is prescribed a 3% alcohol solution of boric acid. What concentration of ethanol should be taken to prepare this solution according to the normative documents?

- a. 40%
- b. 95%
- c. 60%
- d. 90%

e. 70%

391. A patient is prescribed a 3% alcohol solution of boric acid. What concentration of ethanol should be taken to prepare this solution according to the normative documents?

- a. 60%
- b. 40%
- c. 95%
- d. 90%

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- a. 90%
- b. 95%

c. 70%

- d. 40%
- e. 60%

393. A patient measures out a necessary dose of a mixture, using a tablespoon. How many milliliters of liquid does one tablespoon contain?

a. 15

b. 25

- c. 10
- d. 20
- e. 5

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- c. 10
- d. 20
- e. 25

396. A patient needs eye drops with riboflavin. What substance should the pharmacist add to the solution to ensure its isotonicity, if there are no specific instructions in the doctor's prescription?

a. Boric acid

b. Glucose

c. Sodium chloride

d. Sodium nitrate

e. Sodium sulfate

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c. Sodium chloride

d. Sodium sulfate

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399. A patient needs the pharmacy to prepare him a camphor ointment. What concentration of camphor should be in the ointment according to the regulatory documents?

a. 10%

b. 5%

c. 20%

d. 1%

e. 15%

400. A patient needs the pharmacy to prepare him a camphor ointment. What concentration of camphor should be in the ointment according to the regulatory documents?

a. 20%

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c. 1%

d. 10%

e. 5%

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402. A patient receives heparin for acute myocardial infarction. On the third day the patient developed hematuria and subcutaneous hematomas. What medicine should be prescribed as an antidote in this case?

a. Protamine sulfate

b. Vicasol (Menadione)

c. Streptokinase

d. Clopidogrel

e. Acetylsalicylic acid

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405. A patient suffering from bronchial asthma was diagnosed with essential hypertension. What antihypertensive drug is contraindicated for this patient?

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408. A patient suffers from avitaminosis C) The physician has prescribed a course of phytotherapy. What herbal raw material is rich in this vitamin?

a. Fructus Sorbi

b. Cortex Quercus

c. Cortex Viburni opuli

d. Folium Menthae piperitae

e. Rhizoma Tormentillae

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e. Folium Menthae piperitae

411. A patient was diagnosed with peptic ulcer disease of the stomach and prescribed a combined pharmacotherapy. Several days later, his feces turned black. What medicine is likely to cause this phenomenon?

a. Lansoprazole

b. Bismuth subcitrate

c. Omeprazole

d. Famotidine

e. Ranitidine

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414. A patient was prescribed an oral antibiotic for treatment and an antacid to remove heartburn symptoms. If the drugs are taken simultaneously their interaction can result in the following:

a. Acceleration of metabolism and excretion

b. Inhibition of hepatic microsomal enzymes

c. Antibiotic malabsorption

d. Relative overdosage

e. Mutual potentiation

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417. A patient with angina pectoris takes long-acting nitrates. Consult him what side-effect is the most common for these drugs:

a. Headache

- b. Vomiting
- c. Constipation
- d. Nausea
- e. Diarrhea

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- a. Vomiting

b. Headache

- c. Constipation
- d. Diarrhea
- e. Nausea

420. A patient with arterial hypertension has been taking a beta-blocker (bisoprolol) for a long time. After his condition improved, he suddenly stopped taking this drug, which caused a sharp increase in the blood pressure. What complication of the therapy has occurred in this case?

- a. Bradycardia
- b. Reduced sensitivity
- c. Dysbacteriosis
- d. Bronchospasm

e. Withdrawal syndrome

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- c. Bradycardia
- d. Bronchospasm
- e. Dysbacteriosis

423. A patient with arterial hypertension has developed a dry cough in the course of his treatment. The doctor suspects a side effect caused by one of the medicines the patient was taking. This medicine most likely belongs to the following group:

- a. Diuretics

b. Angiotensin-converting-enzyme inhibitors

- c. Calcium channel blockers
- d. Imidazoline receptor blockers
- e. Ganglionic blockers

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- a. Ganglionic blockers
- b. Angiotensin-converting-enzyme inhibitors**

- c. Calcium channel blockers
- d. Diuretics
- e. Imidazoline receptor blockers

426. A patient with arterial hypertension was prescribed enalapril, but after two weeks of treatment, taking this drug at the dose of 10 mg twice a day, the patient developed a dry non-productive cough. What is the likely cause of this side effect?

- a. Increased tone of the cough center
- b. Exacerbation of chronic bronchitis
- c. Gastroesophageal reflux
- d. Accumulation of residual bradykinin in the blood**

- e. Inhibition of histamine synthesis

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- d. Gastroesophageal reflux
- e. Accumulation of residual bradykinin in the blood**

429. A patient with arterial hypertension, who takes captopril, was prescribed a potassium-sparing diuretic, spironolactone. What complication can develop in the patient due to this combination of drugs?

- a. Hypocalcemia
- b. Hypernatremia
- c. Hypoglycemia
- d. Hyperkalemia**

- e. Hyponatremia

430. A patient with arterial hypertension, who takes captopril, was prescribed a potassium-sparing diuretic, spironolactone. What complication can develop in the patient due to this combination of drugs?

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c. Hypernatremia

d. Hyperkalemia

e. Hypoglycemia

432. A patient with atrophic hypoacid gastritis type A has been diagnosed with a complication in the blood system - the development of B₁₂-deficiency anemia. What medicine is pathogenetically justified in this case?

a. Cyanocobalamin

b. Nicotinic acid

c. Thiamine

d. Pyridoxine

e. Riboflavin

433. A patient with atrophic hypoacid gastritis type A has been diagnosed with a complication in the blood system - the development of B₁₂-deficiency anemia. What medicine is pathogenetically justified in this case?

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435. A patient with chronic heart failure, who has been taking cardiac glycosides, developed signs of glycoside intoxication. What antidote would be advisable in this case?

a. Unithiol (DMPS)

b. Protamine

c. Naloxone

d. Methionine

e. Vicasol (Menadione)

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438. A patient with exertional angina pectoris had been taking isosorbide mononitrate orally for 2 months, when this drug lost its effectiveness. What is the likely cause of isosorbide mononitrate being no longer effective in this case?

a. Cumulation

b. Tolerance

c. Physical dependence

d. Psychological dependence

e. Sensitization

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d. Tolerance

e. Physical dependence

441. A patient with heart failure has developed an electrolyte imbalance against the background of diuretic treatment with furosemide. What imbalance has the patient developed?

a. Hypokalemia

b. Hypernatremia

c. Hypermagnesemia

d. Hyperkalemia

e. Hypocalcemia

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b. Hyperkalemia

c. Hypocalcemia

d. Hypokalemia

e. Hypernatremia

444. A patient with iron-deficiency anemia was prescribed iron sulfate. What side effect is characteristic of iron preparations?

a. Constipation

b. Elevated blood pressure

c. Bradycardia

d. Dysbiosis

e. Osteoporosis

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- b. Dysbiosis
- c. Osteoporosis
- d. Bradycardia

e. Constipation

447. A patient with ischemic heart disease and chronic circulatory failure had been taking for a long time one of the drugs listed below. He developed hypokalemia, which resulted in cardiac rhythm disturbance and muscle weakness. What drug can lead to this complication as a side effect?

a. Furosemide

- b. Propranolol
- c. Nifedipine
- d. Lisinopril
- e. Spironolactone

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- a. Spironolactone
- b. Lisinopril

c. Furosemide

- d. Nifedipine
- e. Propranolol

450. A patient with severe progression of bronchial asthma has been taking an inhalation corticosteroid for a long time to relieve asphyxia attacks. What side effect is the most likely to develop in this case?

- a. Cushing's syndrome
- b. Steroid diabetes

c. Oral candidiasis

- d. Osteoporosis
- e. Osteoarthritis

451. A patient with severe progression of bronchial asthma has been taking an inhalation corticosteroid for a long time to relieve asphyxia attacks. What side effect is the most likely to develop in this case?

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- a. Osteoporosis
- b. Oral candidiasis**
- c. Osteoarthritis
- d. Cushing's syndrome
- e. Steroid diabetes

453. A patient, who for the last three weeks was taking a laxative - a decoction of Frangula bark, has noticed a significant decrease in its clinical effect. What is the name of this phenomenon?

- a. Cumulation
- b. Tolerance**
- c. Sensitization
- d. Withdrawal syndrome
- e. Idiosyncrasy

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- b. Idiosyncrasy
- c. Withdrawal syndrome
- d. Cumulation
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- b. Tolerance**
- c. Sensitization
- d. Cumulation
- e. Idiosyncrasy

456. A patient, who has been taking acetylsalicylic acid, developed hemorrhages of mucous membranes. This phenomenon is associated with:

- a. Increased absorption in the gastrointestinal tract
- b. Disorder of protein binding
- c. Inhibition of the prothrombin synthesis**
- d. Changed volume of distribution
- e. Decreased absorption in the gastrointestinal tract

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- c. Decreased absorption in the gastrointestinal tract
- d. Changed volume of distribution
- e. Inhibition of the prothrombin synthesis**

458. A patient, who has been taking an expectorant, has developed complaints of hypersalivation, rhinitis, and itching skin rashes (signs of iodism). What medicine can cause these side effects?

- a. Potassium iodide**
- b. Infusion of Thermopsis grass
- c. Ammonium chloride
- d. Mucaltin
- e. Ambroxol syrup

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- a. Mucaltin
- b. Infusion of Thermopsis grass
- c. Ambroxol syrup
- d. Ammonium chloride

e. Potassium iodide

461. A patient, who has been taking warfarin for a long time, was recommended to take acetylsalicylic acid because of hyperthermic syndrome. What complication can be caused by such a combination of medicines?

- a. Dysbacteriosis
- b. Thrombus formation
- c. Hyperkalemia
- d. Hypokalemia

e. Hemorrhages

462. A patient, who has been taking warfarin for a long time, was recommended to take acetylsalicylic acid because of hyperthermic syndrome. What complication can be caused by such a combination of medicines?

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464. A patient, who has undergone treatment for community-acquired pneumonia, complains of hearing impairment. What antibacterial drug could result in such a side-effect?

a. Gentamicin

- b. Ciprofloxacin
- c. Clarithromycin
- d. Amoxicillin/clavulanate
- e. Cefazolin

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- d. Ciprofloxacin
- e. Cefazolin

467. A patient, who is undergoing treatment for ischemic heart disease, after physical exertion felt an acute pain in the cardiac area. What drug can be prescribed in this case for quick relief of the pain syndrome?

a. Corglycon (convallatoxin)

b. Nitroglycerine

c. Enalapril

d. Prazosin

e. Captopril

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470. A pharmacy has been licensed for wholesale distribution of medicinal products. What sales operation belongs to a wholesale distribution?

a. Sale of drugs to chronically ill patients

b. Sale of extemporal dosage forms

c. Sale of ready-to-use drugs

d. Sale of over-the-counter drugs

e. Sale to other organizations for commercial use

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473. A pharmaceutical analyst identifies the substance of potassium acetate. What reagent confirms the presence of potassium cation in the substance?

a. Tartaric acid

b. Zinc oxide

c. Sodium hydroxide

d. Iron (III) chloride

e. Potassium permanganate

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476. A pharmaceutical company can use different types of marketing, depending on the demand for the medicinal products that it produces. What type of demand makes it advisable to implement demarketing?

a. Excessive

- b. Negative
- c. Declining
- d. Satisfied
- e. Absent

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479. A pharmaceutical company develops the manufacture of new products. What part of the production procedures contains the description of the end product and lists its physical and chemical properties?

a. Characteristics of the end product

- b. Information materials
- c. Characteristics of the raw stock, materials, and intermediate products
- d. Description of the manufacturing process
- e. Characteristics of the auxiliary raw stock and materials

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482. A pharmaceutical company focuses on selling a diverse range of products covering different customer groups and regions. What kind of organizational structure is typical for such company?

a. Divisional

b. Decentralized

c. Functional

d. Centralized

e. Bureaucratic

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485. A pharmaceutical company has divided its customers into groups based on their gender, age, and size of their families. What approach to market segmentation is the basis of this customer division?

a. Demographic

b. Geographic

c. Psychographic

d. Socioeconomic

e. Behavioral

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c. Behavioral

d. Geographic

e. Demographic

488. A pharmaceutical company has launched a number of cold relief medicines in the form of syrups and lozenges for kids. What type of market segmentation was used by this company?

a. Demographic

b. Psychographic

c. Geographical

d. -

e. Behavioral

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- a. Behavioral
- b. Demographic**
- c. -
- d. Geographical
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- b. -
- c. Geographical
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491. A pharmaceutical company has opened several new regional offices and now searches for medical representatives. What stage of recruiting process is usually a final one?

- a. Preliminary interview
- b. Telephone interview
- c. Filling in a questionnaire
- d. Submission of a resume

e. Targeted selection interview

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494. A pharmaceutical company lacks the manufacturing power to satisfy the demand for certain medicines. The company increased the price of these medicines and stopped advertising them. What type of marketing is it?

- a. Remarketing

b. Demarketing

- c. Synchromarketing
- d. Stimulation marketing
- e. Conversion marketing

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497. A pharmaceutical company lowered its price for a certain drug due to strong competition and decreasing demand for this drug. What is the purpose of such price policy?

- a. -
- b. To create the image of high-quality medicine manufacturer
- c. To maximize profits
- d. To gain leadership due to high quality of manufactured medicines

e. To ensure business survival

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- e. -

500. A pharmaceutical company makes medical products, special nutrient supplements, and medical cosmetics. What type of business activity is it?

a. Manufacturing activity

- b. -
- c. Commercial activity
- d. Financial activity
- e. Financial and credit activity

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503. A pharmaceutical company plans to introduce traditional herbal remedies to new markets. What marketing opportunity according to Ansoff Matrix was used by the company?

- a. Consolidation
- b. Diversification
- c. Market penetration

d. Market development

- e. Product development

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506. A pharmaceutical company plans to launch the production of a new medicine. What stage of product development includes making the cost estimates for its manufacturing and sales and preliminary calculations of the price and planned profits?

a. Commercial manufacturing

b. Filtration of the ideas

c. Generation of the ideas

d. Test marketing

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509. A pharmaceutical company plans to sell its products in another country together with a foreign company. What type of company's entry to the foreign market is it?

a. Direct investments

b. Tender

c. Joint venture

d. Import

e. Franchising

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512. A pharmaceutical company plans to start selling its products abroad by transferring them into the ownership of a foreign reseller. This company will enter the foreign market by means of:

- a. Export
- b. Direct investments
- c. Joint venture
- d. Licensing
- e. Franchise

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515. A pharmaceutical company produces Lugol's iodine solution. By type of solvent this solution belongs to the following group:

- a. Glycerine solutions
- b. Chloroform solutions
- c. Alcohol solutions
- d. Oil solutions
- e. Water solutions

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518. A pharmaceutical company produces a medicine under the brand name "Corglyconum". What herbal raw material is used in preparation of this drug?

a. Lily-of-the-valley grass

- b. Wormwood grass
- c. Dandelion roots
- d. Plantain foliage
- e. Buckthorn bark

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521. A pharmaceutical company produces animal-derived biostimulants. Solcoseryl preparation is obtained from the following raw material:

- a. Bovine spleen
- b. Human blood

c. Bovine blood

- d. Velvet antlers
- e. Bovine trachea

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524. A pharmaceutical company produces aromatic waters. Peppermint water should be prepared in the following proportion:

a. 1:1000

- b. 1:1
- c. 1:10
- d. 1:4000
- e. 1:2000

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- c. 1:2000
- d. 1:1

e. 1:1000

527. A pharmaceutical company produces belladonna tincture. In the process of standardization, excessive content of active substances was detected. How can this situation be remedied?

a. Dilute the tincture with extractant to normal concentration

- b. This kind of deviation is not important
- c. The tincture is a non-recoverable reject material

- d. Filter the tincture through adsorbent
- e. Precipitate excessive active substances

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- a. Acceleration of bioactive substances extraction

b. Formation of biostimulants

- c. Prevention of hydrolysis of bioactive substances
- d. Reducing the content of ballast substances
- e. Extending the shelf life of raw materials

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- c. Extending the shelf life of raw materials
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533. A pharmaceutical company produces deep-acting ointments. What is the mechanism of action of the active substances contained in resorptive ointments?

a. Reach the systemic circulation and enhance the effect of drugs

- b. Prevent drying and contamination of the epidermis
- c. Protect the skin from external factors
- d. Absorbed by the outer layers of the skin
- e. Protect the skin from microbial infection

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536. A pharmaceutical company produces essential oils via a method that consists of essential oil transfer into gas phase followed by its absorption with fats and then its extraction with alcohol. Name this method:

- a. Enfleurage**
- b. Extraction
- c. Dynamic sorption
- d. Hydrodistillation
- e. Compression

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539. A pharmaceutical company produces galenic preparations. These preparations contain:

- a. Preservatives
- b. Smell-correcting agents
- c. Taste-correcting agents
- d. Only one active substance
- e. A sum of active substances**

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542. A pharmaceutical company produces liquid dosage forms. What principle is used in rotary pulsation apparatus to obtain an emulsion?

- a. Mechanical dispersion**
- b. Maceration
- c. Coacervation
- d. Solubilization
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b. Thickeners

c. Emulsifiers

d. Preservatives

e. Solubilizers

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548. A pharmaceutical company produces mint tincture. Technological process of making this tincture requires it to be made:

a. With 70% alcohol in 1:15 proportion

b. With 90% alcohol in 1:20 proportion

c. With 70% alcohol in 1:5 proportion

d. With 48% alcohol in 1:2 proportion

e. With 70% alcohol in 1:10 proportion

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551. A pharmaceutical company produces soft dosage forms. What indicator should be measured additionally for the soft dosage forms that are intended for application on heavily damaged skin?

- a. Microbiological purity
- b. pH
- c. Quantitative determination

d. Sterility

e. Identification

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554. A pharmaceutical company produces sterile aqueous solutions for eye rinsing and moisturizing, as well as for impregnation of the materials that are applied to the eyes topically. Name these solutions:

a. Eye drops

b. Eye inserts

c. Eye lotions

d. Eye ointments

e. Eye sprays

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557. A pharmaceutical company produces suppositories made from thermolabile medicinal substances. What method is used in their production?

a. Pressing

b. Dispersion

c. Steeping

d. Rolling

e. Pouring

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560. A pharmaceutical company produces tablets. Tableting by means of direct compression requires:

a. Prior homogenization

b. No prior granulation

c. Formation of masses

d. Application of hydraulic press

e. Prior granulation

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563. A pharmaceutical company produces various types of tablets. Specify the structure of matrix tablets:

a. A reticular matrix that contains the medicinal substance

b. Tablets covered in a fat-soluble coating

c. A dispersion of medicinal substances in polyethylene

d. Tablets covered in a film coating

e. Tablets with a dragee coating

564. A pharmaceutical company produces various types of tablets. Specify the structure of matrix tablets:

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b. A dispersion of medicinal substances in polyethylene

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e. Tablets covered in a fat-soluble coating

566. A pharmaceutical company produces various medicines. Name the dosage form consisting of

separate hard dry particles disintegrated to varying degree:

a. Powders

- b. Dried extract
- c. Suspensions
- d. Emulsions
- e. Tablets

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- b. Suspensions
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e. Powders

569. A pharmaceutical company promotes a healthy lifestyle, provides sponsorship to an orphanage, and funds sporting events. Name this concept of the company activity:

a. Social responsibility

- b. Financial activity
- c. Manufacturing activity
- d. -
- e. Commercial activity

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572. A pharmaceutical company provides its employees with free lunches. What needs does it try to satisfy according to Maslow's theory of motivation?

a. Physiological

- b. Self-actualisation
- c. Esteem
- d. Social (involvement in the events)
- e. Safety and protection

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e. Physiological

575. A pharmaceutical company studies the life cycle of a drug that is being introduced to the market. Name the stage, when sales volume grows slowly and large investments in organization of sales and manufacturing are necessary.

a. Market entry

- b. Testing phase
- c. Decline phase
- d. Saturation phase
- e. Maturity phase

576. A pharmaceutical company studies the life cycle of a drug that is being introduced to the market. Name the stage, when sales volume grows slowly and large investments in organization of sales and manufacturing are necessary.

- a. Decline phase
- b. Saturation phase

c. Market entry

- d. Testing phase
- e. Maturity phase

577. A pharmaceutical company studies the life cycle of a drug that is being introduced to the market. Name the stage, when sales volume grows slowly and large investments in organization of sales and manufacturing are necessary.

a. Maturity phase

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- c. Testing phase
- d. Saturation phase
- e. Decline phase

578. A pharmaceutical company that has been producing nasal drops begins to produce the same drug in a spray dosage form. What marketing approach does this company choose in its relationship with customers?

- a. Intensification of commercial effort
- b. Manufacture improvement
- c. Socioethical marketing
- d. Sales improvement

e. Product improvement

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581. A pharmaceutical company that specializes in the manufacture of herbal medicines is expanding its scope of work and establishes the production of cosmetics. What development strategy did the company choose?

a. Diversification

b. Survival

c. Stability

d. Modernization

e. -

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584. A pharmaceutical company uses the Boston Consulting Group matrix to analyze the state of its strategic business units (drugs). What is the BCG Matrix based on?

a. Market share and market growth rate

b. Business opportunities

c. Market segments

d. Competitive Intensity

e. Attractiveness of the industry

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587. A pharmaceutical company uses various methods of advertising. What method of advertising foresees its distribution to everyone, not just the target audience?

a. -

b. Out-of-home advertising

c. Postal cards and pamphlets

d. Professional-targeted advertising

e. Advertising souvenirs

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590. A pharmaceutical company wants to strengthen its position in the competitive market environment. It decides to use brand names as a part of its trade policy. What is the purpose of a brand name?

a. Differentiation between the competing medicines on the market

- b. It is a mandatory condition to be able to sell medicines at a reduced price to certain population groups
- c. Eligibility for registration in the List of medicines and medical products with state-controlled prices
- d. Justification of a higher price for the medicine
- e. Ensuring the necessary quality of medicines

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593. A pharmaceutical company, wanting to strengthen its market position in a competitive environment, decided to use trademarks during the implementation of its product policy. What is the purpose of a trademark?

- a. Market segmentation
- b. Study of quantitative characteristics of the market
- c. Determining the need for medicines

d. Differentiation and protection of the company-produced medicines on the market

- e. Marketing research

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596. A pharmaceutical factory prepares syrups for taste-masking of medicines. What substance must be removed from such syrups to prevent jellification of the end product?

- a. Glucose
- b. Pectin**
- c. Sucrose
- d. Fructose
- e. Starch

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599. A pharmaceutical factory produces Thiamazole (Merkazolil) that is a medicinal substance with an antithyroid effect. Select from the list one of the initial compounds in its synthesis.

- a. Acridine
- b. Hydroxyquinoline

c. Methyl isothiocyanate

- d. Naphthoquinone
- e. Furfural

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602. A pharmaceutical factory produces antimicrobial agent nitrofurazone (Nitrofural, Furacilin). What initial substance is used in its synthesis?

a. Furfural

- b. Resorcinol
- c. Hydroxyquinoline
- d. Benzaldehyde

e. Aniline

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605. A pharmaceutical factory produces juices from fresh herbal raw materials. What technological operation is performed at the stage of juice purification?

a. Heating followed by rapid cooling

b. Crystallization

c. Filtration

d. Sedimentation

e. Adsorption

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a. Preservatives

b. Pectic materials

c. Emulsifiers

d. Solubilizers

e. Thickeners

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611. A pharmaceutical factory produces ointments. Name the stage of the manufacturing process that allows to obtain a uniform ointment:

a. Homogenization

- b. Dispersion
- c. Mixing components with the vehicle
- d. Ointment concentrate production
- e. Vehicle production

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- b. Vehicle production

c. Homogenization

- d. Mixing components with the vehicle
- e. Dispersion

614. A pharmaceutical factory produces soft dosage forms. What soft dosage form melts at the body temperature?

- a. Cream
- b. Ointment
- c. Paste
- d. Gel

e. Liniment

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617. A pharmaceutical factory produces suppositories with hydrophilic bases. What parameter is measured during standardization of such suppositories?

- a. Boiling point

b. Dissolution time

- c. Dry residue
- d. Resuspension
- e. Mechanical strength

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620. A pharmaceutical factory produces tablets of sodium chloride. What is the method of their production?

a. Direct compression with the addition of excipients

b. Direct compression without additional substances

c. Wet granulation prior to compression

d. Dry granulation prior to compression

e. Moulding

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623. A pharmaceutical factory produces various types of tablets. What is the purpose of Solublettae tablets?

a. Preparation of solutions for various pharmaceutical purposes

b. Implantation

c. Sublingual administration

d. Preparation of solutions for injections

e. Rectal administration

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b. Rectal administration

c. Preparation of solutions for injections

d. Implantation

e. Preparation of solutions for various pharmaceutical purposes

626. A pharmaceutical factory uses dragee machines to apply multiple layers of active substances and adjuvants to sugar granules. The end product of this process is the following dosage form:

a. Dragee

- b. Dragee tablets
- c. Granules
- d. Microcapsules
- e. Spansules with polymer coating

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629. A pharmaceutical factory uses maceration technique to produce tinctures. How long must herbal raw materials be steeped according to this technique?

a. 7 days

- b. 5 days
- c. 2 days
- d. 12 hours
- e. 24 hours

630. A pharmaceutical factory uses maceration technique to produce tinctures. How long must herbal raw materials be steeped according to this technique?

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- b. 12 hours

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- e. 2 days

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632. A pharmaceutical manufacturer forms marketing teams responsible for a particular product or a group of products (medicines). What model of marketing organization does the company use in this case?

a. Product-based marketing

- b. Regional marketing
- c. Combined marketing (matrix model)
- d. Functional marketing
- e. Segment marketing

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635. A pharmaceutical manufacturer sets the price for a drug basing on its prime cost with premium. What model of pricing is it?

a. Cost-based

- b. Supply-based
- c. Competitive
- d. Demand-based
- e. Breakeven

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638. A pharmaceutical warehouse has received a batch of herbal raw material - a bark of *Quercus robur*. What active substances should be measured in this material, according to the State Pharmacopoeia of Ukraine?

a. Coumarins

b. Tannins

- c. Anthracene derivatives
- d. Flavonoids
- e. Essential oils

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641. A pharmaceutical warehouse has received a batch of herbal raw material - hawthorn flowers. Merchandise analysis revealed in one of the sacks significant amount of bird-cherry flowers besides

the hawthorn. What quality assessment of the herbal raw material should be performed?

- a. Mineral admixtures
- b. Ash values (Total ash)
- c. Acceptable admixtures**
- d. Extractive values
- e. Moisture content

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644. A pharmaceutical warehouse received a herbal raw material that consists of "cones" with loose scales that are attached to a firm twig with or without fruits. Its collective fruits are pale green, fragrant, and bitter. Name the plant from which this herbal raw material was harvested:

- a. Humulus lupulus**
- b. Olea europeaea
- c. Rubus idaeus
- d. Juniperus communis
- e. Alnus incana

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647. A pharmaceutical wholesaler constantly monitors expiration dates of medicines and their storage and transportation conditions. What type of control is exercised in this case?

- a. Ongoing**
- b. Final
- c. Financial
- d. Preliminary
- e. Social

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653. A pharmaceutical wholesaler sells ointment bases (vaseline, lanolin, etc.) in bulk ("an gross") to the pharmacies that make extemporaneous compounds. What sales method (type of distribution) is typical for selling these goods?

a. Selective method

- b. Mass sales method
- c. -
- d. Intensive method
- e. Integrated method

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656. A pharmacist approached the chief manager of the pharmacy with a proposition to introduce an additional service for their customers - blood pressure measurement. What type of communication is it?

- a. External
- b. Horizontal

c. Vertical ascending

- d. Vertical descending
- e. Intra-level

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659. A pharmacist approached the chief manager of the pharmacy with a request for pay raise. The chief manager turned down this request. What type of conflict is it?

- a. Dysfunctional conflict
- b. Interpersonal conflict**
- c. Intergroup conflict
- d. Intrapersonal conflict
- e. Conflict between individual and group

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e. Interpersonal conflict

662. A pharmacist at the analytical quality control laboratory uses acidimetry in a non-aqueous medium to study a verapamil hydrochloride substance. What solution would the pharmacist use as a titrant in this study?

- a. Sodium edetate solution
- b. Perchloric acid solution**
- c. Potassium bromate solution
- d. Sodium nitrite solution
- e. Zinc sulfate solution

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- d. Sodium edetate solution
- e. Sodium nitrite solution

665. A pharmacist at the extemporaneous compounding department of a pharmacy has prepared 100 mL of an infusion of Leonurus grass. What amount of the herbal raw material and purified water is necessary to prepare this infusion, if water absorption coefficient is 2.0?

- a. 10.0 g and 120 mL
- b. 5.0 g and 110 mL
- c. 20.0 g and 140 mL
- d. 0.25 g and 100 mL
- e. 10.0 g and 100 mL

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- c. 5.0 g and 110 mL
- d. 10.0 g and 100 mL
- e. 10.0 g and 120 mL

668. A pharmacist at the extemporaneous compounding department of a pharmacy has received a prescription for an infusion marked "Cito". How long such an aqueous extract must be infused in a water bath?

- a. 10 minutes
- b. 45 minutes
- c. 15 minutes
- d. 30 minutes
- e. 25 minutes

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- b. 10 minutes
- c. 45 minutes
- d. 15 minutes

e. 25 minutes

671. A pharmacist at the pharmacy has received a promotion. What type of job rotation is it?

- a. -
- b. Mixed
- c. Combined

d. Vertical

e. Horizontal

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674. A pharmacist has a labour dispute with the pharmacy administration about rescheduling his annual vacation leave. The employee can appeal against the decision of the pharmacy administration to the following body:

a. The Ministry of Public Health of Ukraine

b. Labour disputes committee (LDC)

- c. Highest management bodies of pharmaceutical service at the regional level
- d. Trade union committee
- e. Commercial court

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e. The Ministry of Public Health of Ukraine

677. A pharmacist has made a topical solution with lipophilic vehicle. Specify the substance that produces such a type of solution:

a. Menthol

b. Starch

- c. Sulfur
- d. Dermatol (bismuth subgallate)
- e. Novocaine hydrochloride

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a. Starch

b. Menthol

- c. Dermatol (bismuth subgallate)
- d. Novocaine hydrochloride
- e. Sulfur

679. A pharmacist has made an injection solution that contains a salt produced by reaction of a strong base with a weak acid. Specify the necessary stabilizer:

a. Sodium hydrochloride

- b. Ascorbic acid
- c. Sodium sulfate
- d. Hydrochloric acid
- e. Cysteine

680. A pharmacist has made an injection solution that contains a salt produced by reaction of a strong base with a weak acid. Specify the necessary stabilizer:

- a. Ascorbic acid
- b. Hydrochloric acid
- c. Sodium sulfate
- d. Cysteine

e. Sodium hydrochloride

681. A pharmacist has made an injection solution that contains a salt produced by reaction of a strong base with a weak acid. Specify the necessary stabilizer:

- a. Hydrochloric acid
- b. Ascorbic acid
- c. Cysteine

d. Sodium hydrochloride

e. Sodium sulfate

682. A pharmacist has prepared a Leonurus tincture with sodium bromide. How was sodium bromide introduced into the preparation in this case?

- a. Concentrated solution was added into the prepared extract
- b. Sodium bromide was dissolved in the tincture in a vial for dispensing

c. Dry substance was dissolved in the filtered extract in a stand

- d. Dry substance was dissolved in the infusion apparatus
- e. Sodium bromide was mixed in a separate vessel with a part of the extract, than this mixture was added into the prepared tincture

683. A pharmacist has prepared a Leonurus tincture with sodium bromide. How was sodium bromide introduced into the preparation in this case?

- a. Dry substance was dissolved in the infusion apparatus
- b. Concentrated solution was added into the prepared extract
- c. Sodium bromide was dissolved in the tincture in a vial for dispensing

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684. A pharmacist has prepared a Leonurus tincture with sodium bromide. How was sodium bromide introduced into the preparation in this case?

- a. Dry substance was dissolved in the infusion apparatus
- b. Sodium bromide was dissolved in the tincture in a vial for dispensing
- c. Sodium bromide was mixed in a separate vessel with a part of the extract, than this mixture was added into the prepared tincture
- d. Concentrated solution was added into the prepared extract
- e. Dry substance was dissolved in the filtered extract in a stand**

685. A pharmacist has prepared a collargol solution. Name the type of disperse system in this case:

- a. Emulsion
- b. True solution
- c. Suspension
- d. Colloid solution**
- e. Aerosol

686. A pharmacist has prepared a collargol solution. Name the type of disperse system in this case:

- a. Suspension
- b. Emulsion
- c. True solution
- d. Colloid solution**
- e. Aerosol

687. A pharmacist has prepared a collargol solution. Name the type of disperse system in this case:

- a. True solution
- b. Aerosol
- c. Colloid solution**
- d. Suspension
- e. Emulsion

688. A pharmacist has prepared a compound ointment. What is the correct sequence of its preparation?

- a. Suspension - solution - emulsion**
- b. Emulsion - suspension - solution
- c. Solution - suspension - emulsion
- d. Emulsion - solution - suspension
- e. Solution - emulsion - suspension

689. A pharmacist has prepared a compound ointment. What is the correct sequence of its preparation?

- a. Emulsion - solution - suspension
- b. Emulsion - suspension - solution
- c. Suspension - solution - emulsion**
- d. Solution - emulsion - suspension
- e. Solution - suspension - emulsion

690. A pharmacist has prepared a compound ointment. What is the correct sequence of its preparation?

- a. Emulsion - solution - suspension
- b. Solution - emulsion - suspension
- c. Suspension - solution - emulsion**
- d. Solution - suspension - emulsion
- e. Emulsion - suspension - solution

691. A pharmacist has prepared a liquid mixture. What component was added last into the vial?

- a. 20% sodium bromide solution
- b. Tincture of valerian**
- c. Simple syrup
- d. Potassium bromide
- e. Purified water

692. A pharmacist has prepared a liquid mixture. What component was added last into the vial?

- a. 20% sodium bromide solution
- b. Tincture of valerian**
- c. Simple syrup
- d. Purified water
- e. Potassium bromide

693. A pharmacist has prepared a liquid mixture. What component was added last into the vial?

- a. Simple syrup
- b. Purified water
- c. Tincture of valerian**

- d. 20% sodium bromide solution
- e. Potassium bromide

694. A pharmacist has prepared a medicine by dissolving the active substances in the water that was acidified with hydrochloric acid solution (1:10). Such preparation technology is characteristic of:

- a. Collargol (Colloidal silver)
- b. Osarsol

c. Pepsin

- d. Copper sulfate
- e. Tannin

695. A pharmacist has prepared a medicine by dissolving the active substances in the water that was acidified with hydrochloric acid solution (1:10). Such preparation technology is characteristic of:

- a. Osarsol
- b. Collargol (Colloidal silver)

c. Pepsin

- d. Tannin
- e. Copper sulfate

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- a. Osarsol
- b. Collargol (Colloidal silver)
- c. Copper sulfate

d. Pepsin

- e. Tannin

697. A pharmacist has prepared a medicine, using the following formulation: Magnesii oxydi Natrii hydrocarbonatis ana 0.2 M. f. pulv. D. t. d. №12 S. Take one powder thrice a day. endtabular What is the optimal preparation technique in this case?

- a. Comminute magnesium oxide with alcohol, add sodium bicarbonate, mix the ingredients
- b. Comminute sodium bicarbonate, add magnesium oxide, mix the ingredients**
- c. Comminute magnesium oxide, add sodium bicarbonate, mix the ingredients
- d. Comminute a part of magnesium oxide, add sodium bicarbonate, add the remaining magnesium oxide, mix the ingredients
- e. Comminute sodium bicarbonate with alcohol, add magnesium oxide, mix the ingredients

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- b. Comminute magnesium oxide, add sodium bicarbonate, mix the ingredients
- c. Comminute sodium bicarbonate, add magnesium oxide, mix the ingredients**
- d. Comminute a part of magnesium oxide, add sodium bicarbonate, add the remaining magnesium oxide, mix the ingredients
- e. Comminute magnesium oxide with alcohol, add sodium bicarbonate, mix the ingredients

700. A pharmacist has prepared a solid dosage form - a compound powder. What technological operation is textbfNOT a part of preparation process in this case?

a. Dissolution

- b. Mixing
- c. Dosing

- d. Packing
- e. Comminution

701. A pharmacist has prepared a solid dosage form - a compound powder. What technological operation is **NOT** a part of preparation process in this case?

a. Dissolution

- b. Packing
- c. Comminution
- d. Dosing
- e. Mixing

702. A pharmacist has prepared a solid dosage form - a compound powder. What technological operation is **NOT** a part of preparation process in this case?

- a. Packing
- b. Dosing
- c. Comminution

d. Dissolution

e. Mixing

703. A pharmacist has prepared a suspension that contains basic bismuth nitrate. What method was used in the process of its preparation?

a. Dispersion with stirring

- b. Chemical condensation
- c. Solvent replacement method
- d. Continental method
- e. Physical condensation

704. A pharmacist has prepared a suspension that contains basic bismuth nitrate. What method was used in the process of its preparation?

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- a. Continental method
- b. Physical condensation
- c. Solvent replacement method
- d. Chemical condensation

e. Dispersion with stirring

706. A pharmacist has prepared a tincture from Adonis vernalis grass. What special technique was necessary in this case to extract the active substances?

a. They must be extracted in a neutral medium

- b. They must be extracted in a slightly alkaline medium
- c. They must be extracted in an acidic medium
- d. They must be extracted in a weakly acidic medium
- e. They must be extracted in an alkaline medium

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b. They must be extracted in a neutral medium

- c. They must be extracted in a weakly acidic medium
- d. They must be extracted in a slightly alkaline medium
- e. They must be extracted in an acidic medium

709. A pharmacist has prepared an aqueous extract using the cold infusion method. What herbal raw material was it?

- a. Arctostaphylos leaves
- b. Buckthorn bark

c. Marshmallow roots

- d. Mint leaves
- e. Thermopsis grass

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- a. Thermopsis grass

b. Marshmallow roots

- c. Arctostaphylos leaves
- d. Buckthorn bark
- e. Mint leaves

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- a. Thermopsis grass
- b. Mint leaves
- c. Buckthorn bark

d. Marshmallow roots

- e. Arctostaphylos leaves

712. A pharmacist has prepared an ascorbic acid solution for injections. What stabilizer was used in this case?

a. Sodium sulfite

- b. 0.1 M solution of hydrochloric acid
- c. Boric acid
- d. 0.1 M solution of sodium hydroxide
- e. Weibel stabilizer

713. A pharmacist has prepared an ascorbic acid solution for injections. What stabilizer was used in this case?

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- b. 0.1 M solution of hydrochloric acid
- c. Weibel stabilizer
- d. 0.1 M solution of sodium hydroxide

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- a. Boric acid
- b. 0.1 M solution of sodium hydroxide
- c. Weibel stabilizer
- d. 0.1 M solution of hydrochloric acid

e. Sodium sulfite

715. A pharmacist has prepared an eyedrops vehicle. What method of sterilization should be chosen in this case?

a. Dry heat

- b. Pasteurization
- c. Ultraviolet irradiation
- d. Membrane filtration
- e. Flowing steam

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- b. Pasteurization
- c. Ultraviolet irradiation
- d. Membrane filtration

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- a. Ultraviolet irradiation
- b. Membrane filtration
- c. Flowing steam
- d. Pasteurization

e. Dry heat

718. A pharmacist has prepared an injection solution of ascorbic acid. What substance is necessary for solution stabilization in this case?

- a. Sodium acetate
- b. Sodium chloride

c. Sodium sulfite

- d. Sodium citrate
- e. Sodium bromide

719. A pharmacist has prepared an injection solution of ascorbic acid. What substance is necessary for solution stabilization in this case?

- a. Sodium bromide

b. Sodium sulfite

- c. Sodium chloride
- d. Sodium acetate
- e. Sodium citrate

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- a. Sodium bromide

b. Sodium sulfite

- c. Sodium citrate
- d. Sodium acetate
- e. Sodium chloride

721. A pharmacist has prepared an oak bark decoction. What is the ratio of the herbal raw material to extractant?

- a. 1:30

b. 1:10

- c. 1:400
- d. 1:20
- e. 1:5

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- b. 1:400
- c. 1:5

d. 1:10

- e. 1:20

723. A pharmacist has prepared an oak bark decoction. What is the ratio of the herbal raw material to extractant?

- a. 1:5
- b. 1:30
- c. 1:400
- d. 1:20

e. 1:10

724. A pharmacist has prepared suppositories with novocaine (procaine) hydrochloride using a rolling technique. The novocaine hydrochloride content is less than 5%. How is this substance introduced

into the base in this case?

a. Dissolution in the minimal amount of water

b. Dissolution in ethyl alcohol

c. Dissolution in the melted base

d. Dissolution in the minimal amount of castor oil

e. Dissolution in the minimal amount of alcohol-water-glycerin mixture

725. A pharmacist has prepared suppositories with novocaine (procaine) hydrochloride using a rolling technique. The novocaine hydrochloride content is less than 5%. How is this substance introduced into the base in this case?

a. Dissolution in the minimal amount of water

b. Dissolution in the minimal amount of alcohol-water-glycerin mixture

c. Dissolution in the minimal amount of castor oil

d. Dissolution in ethyl alcohol

e. Dissolution in the melted base

726. A pharmacist has prepared suppositories with novocaine (procaine) hydrochloride using a rolling technique. The novocaine hydrochloride content is less than 5%. How is this substance introduced into the base in this case?

a. Dissolution in the minimal amount of alcohol-water-glycerin mixture

b. Dissolution in ethyl alcohol

c. Dissolution in the melted base

d. Dissolution in the minimal amount of castor oil

e. Dissolution in the minimal amount of water

727. A pharmacist has remained working long after the working day was officially over. How is this work period called?

a. Overtime

b. Dayshift

c. Extended time

d. Nightshift

e. Regular hours

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a. Nightshift

b. Overtime

c. Regular hours

d. Dayshift

e. Extended time

729. A pharmacist has remained working long after the working day was officially over. How is this work period called?

a. Regular hours

b. Extended time

c. Dayshift

d. Nightshift

e. Overtime

730. A pharmacist needs to add a stabilizer to prepare an atropine sulfate solution for injections. What stabilizer would the pharmacist choose for this purpose?

a. Ascorbic acid

b. Sodium metabisulfite

c. Sodium bicarbonate

d. Hydrochloric acid

e. Sodium hydroxide

731. A pharmacist needs to add a stabilizer to prepare an atropine sulfate solution for injections. What stabilizer would the pharmacist choose for this purpose?

a. Sodium hydroxide

b. Ascorbic acid

c. Sodium metabisulfite

d. Hydrochloric acid

e. Sodium bicarbonate

732. A pharmacist needs to add a stabilizer to prepare an atropine sulfate solution for injections. What stabilizer would the pharmacist choose for this purpose?

a. Sodium hydroxide

b. Sodium bicarbonate

c. Hydrochloric acid

d. Ascorbic acid

e. Sodium metabisulfite

733. A pharmacist needs to make a 5% sodium bicarbonate solution for injections. What is the optimum temperature for sodium bicarbonate dissolution that allows avoiding its forceful stirring?

a. 15-20^{°C}

b. 25-35^{°C}

c. 30-45^{°C}

d. 80-100^{°C}

e. 45-55^{°C}

734. A pharmacist needs to make a 5% sodium bicarbonate solution for injections. What is the optimum temperature for sodium bicarbonate dissolution that allows avoiding its forceful stirring?

a. 30-45^{°C}

b. 25-35^{°C}

c. 80-100^{°C}

d. 15-20^{°C}

e. 45-55^{°C}

735. A pharmacist needs to make a 5% sodium bicarbonate solution for injections. What is the optimum temperature for sodium bicarbonate dissolution that allows avoiding its forceful stirring?

a. 45-55^{°C}

b. 25-35^{°C}

c. 15-20^{°C}

d. 30-45^{°C}

e. 80-100^{°C}

736. A pharmacist needs to prepare a trituration of platyphylline hydrotartrate (1:10). What filler would be optimal for making this trituration?

a. Corn starch

b. Refined sugar

c. Lactose

d. Rice starch

e. Mannitol

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a. Rice starch

b. Lactose

c. Mannitol

d. Refined sugar

e. Corn starch

739. A pharmacist needs to prepare eyedrops with pilocarpine hydrochloride. Specify the optimal isotonic agent in this case:

a. Boric acid

b. Sodium nitrite

- c. Sodium sulfate
- d. Glucose

e. Sodium chloride

740. A pharmacist needs to prepare eyedrops with pilocarpine hydrochloride. Specify the optimal isotonic agent in this case:

a. Glucose

b. Sodium chloride

- c. Boric acid
- d. Sodium sulfate
- e. Sodium nitrite

741. A pharmacist needs to prepare eyedrops with pilocarpine hydrochloride. Specify the optimal isotonic agent in this case:

- a. Glucose
- b. Sodium sulfate
- c. Boric acid
- d. Sodium nitrite

e. Sodium chloride

742. A pharmacist needs to weigh out a medicinal substance from the general list - glucose. What minimum amount of glucose can be weighed out using one-gram hand scales?

a. 0.02 g

- b. 0.03 g
- c. 0.04 g
- d. 0.01 g
- e. 0.05 g

743. A pharmacist needs to weigh out a medicinal substance from the general list - glucose. What minimum amount of glucose can be weighed out using one-gram hand scales?

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- b. 0.05 g
- c. 0.04 g
- d. 0.01 g
- e. 0.03 g

744. A pharmacist needs to weigh out a medicinal substance from the general list - glucose. What minimum amount of glucose can be weighed out using one-gram hand scales?

a. 0.04 g

b. 0.02 g

- c. 0.03 g
- d. 0.05 g
- e. 0.01 g

745. A pharmacist prepared a 5% glucose solution and added 5 mL of Weibel's stabilizer. What is the volume of the prepared solution?

a. 100 mL

- b. 50 mL
- c. 500 mL
- d. 1000 mL
- e. 300 mL

746. A pharmacist prepared a 5% glucose solution and added 5 mL of Weibel's stabilizer. What is the volume of the prepared solution?

- a. 50 mL
- b. 1000 mL
- c. 300 mL
- d. 500 mL

e. 100 mL

747. A pharmacist prepared a 5% glucose solution and added 5 mL of Weibel's stabilizer. What is the volume of the prepared solution?

a. 50 mL

b. 1000 mL

c. 500 mL

d. 100 mL

e. 300 mL

748. A pharmacist prepares 100 ml of glucose solution. Specify the amount of Weibel's stabilizer necessary in this case:

a. 10 ml

b. 2 ml

c. 15 ml

d. 5 ml

e. 20 ml

749. A pharmacist prepares 100 ml of glucose solution. Specify the amount of Weibel's stabilizer necessary in this case:

a. 15 ml

b. 20 ml

c. 10 ml

d. 2 ml

e. 5 ml

750. A pharmacist prepares 100 ml of glucose solution. Specify the amount of Weibel's stabilizer necessary in this case:

a. 2 ml

b. 5 ml

c. 15 ml

d. 20 ml

e. 10 ml

751. A pharmacist prepares 180 ml of adonis grass infusion. How much herbal raw material should be taken to prepare this infusion?

a. 6.0

b. 18.0

c. 10.0

d. 15.0

e. 2.0

752. A pharmacist prepares 180 ml of adonis grass infusion. How much herbal raw material should be taken to prepare this infusion?

a. 6.0

b. 2.0

c. 15.0

d. 18.0

e. 10.0

753. A pharmacist prepares 180 ml of adonis grass infusion. How much herbal raw material should be taken to prepare this infusion?

a. 15.0

b. 18.0

c. 6.0

d. 2.0

e. 10.0

754. A pharmacist prepares a chamomile flowers infusion. Specify the proportion of raw material to infusion:

a. 1:10

b. 1:30

c. 1:400

d. 1:50

e. 1:20

755. A pharmacist prepares a chamomile flowers infusion. Specify the proportion of raw material to infusion:

a. 1:30

b. 1:10

c. 1:400

d. 1:50

e. 1:20

756. A pharmacist prepares a chamomile flowers infusion. Specify the proportion of raw material to infusion:

a. 1:50

b. 1:400

c. 1:20

d. 1:30

e. 1:10

757. A pharmacist prepares a compound powder. What medicinal substance must be comminuted without adding an adjuvant liquid (alcohol or ether)?

a. Camphor

b. Streptocide (Sulfanilamide)

c. Menthol

d. Thymol

e. Zinc oxide

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b. Menthol

c. Zinc oxide

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a. Thymol

b. Streptocide (Sulfanilamide)

c. Zinc oxide

d. Camphor

e. Menthol

760. A pharmacist prepares a mixture that according to the prescription must contain ammonia spirit-anise spirit drops. What type of a disperse system will form as a result?

a. Opalescent mixture

b. Emulsion

c. True solution

d. High-molecular compound solution

e. Colloidal solution

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a. True solution

b. Emulsion

c. Colloidal solution

d. High-molecular compound solution

e. Opalescent mixture

763. A pharmacist prepares a suspension with a hydrophobic substance. What stabilizer is necessary

for this dispersion system?

a. Methyl cellulose

b. Boric acid

c. Glucose

d. Nipagin (Methylparaben)

e. Sodium chloride

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a. Sodium chloride

b. Glucose

c. Methyl cellulose

d. Boric acid

e. Nipagin (Methylparaben)

766. A pharmacist prepares a vaseline-based ointment. The vehicle was heated to 40°C) What substance was introduced into the heated vehicle?

a. Camphor

b. Vinilin (polyvinyl butyl ether)

c. Benzoic acid

d. Streptocide

e. Anesthesin

767. A pharmacist prepares a vaseline-based ointment. The vehicle was heated to 40°C) What substance was introduced into the heated vehicle?

a. Anesthesin

b. Benzoic acid

c. Camphor

d. Streptocide

e. Vinilin (polyvinyl butyl ether)

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a. Anesthesin

b. Vinilin (polyvinyl butyl ether)

c. Streptocide

d. Benzoic acid

e. Camphor

769. A pharmacist prepares an infusion in proportion 1:400. Specify the herbal raw material used in this infusion:

a. Camomile grass

b. Althaea roots

c. Oak bark

d. Motherwort grass

e. Thermopsis grass

770. A pharmacist prepares an infusion in proportion 1:400. Specify the herbal raw material used in this infusion:

a. Oak bark

b. Althaea roots

c. Camomile grass

d. Thermopsis grass

e. Motherwort grass

771. A pharmacist prepares an infusion in proportion 1:400. Specify the herbal raw material used in this infusion:

- a. Oak bark
- b. Camomile grass
- c. Althaea roots
- d. Motherwort grass

e. Thermopsis grass

772. A pharmacist prepares an injection solution that must be stabilized with 0,1M of hydrochloric acid solution. What solution is to be prepared?

a. Novocaine

- b. Potassium chloride
- c. Hexamethylenetetramine
- d. Sodium benzoate
- e. Calcium chloride

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- a. Potassium chloride
- b. Calcium chloride

c. Novocaine

- d. Hexamethylenetetramine
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- a. Sodium benzoate

b. Novocaine

- c. Calcium chloride
- d. Potassium chloride
- e. Hexamethylenetetramine

775. A pharmacist prepares an oil emulsion with menthol. How should menthol be introduced in this case?

a. Menthol should be dissolved in oil

- b. Menthol should be introduced as a suspension into the prepared emulsion
- c. Menthol should be dissolved in the purified water
- d. Menthol should be comminuted with the emulsifier
- e. Menthol should be comminuted in a mortar with ethanol

776. A pharmacist prepares an oil emulsion with menthol. How should menthol be introduced in this case?

- a. Menthol should be comminuted with the emulsifier
- b. Menthol should be comminuted in a mortar with ethanol

c. Menthol should be dissolved in oil

- d. Menthol should be dissolved in the purified water
- e. Menthol should be introduced as a suspension into the prepared emulsion

777. A pharmacist prepares an oil emulsion with menthol. How should menthol be introduced in this case?

- a. Menthol should be introduced as a suspension into the prepared emulsion
- b. Menthol should be comminuted with the emulsifier
- c. Menthol should be dissolved in the purified water

d. Menthol should be dissolved in oil

- e. Menthol should be comminuted in a mortar with ethanol

778. A pharmacist prepares cocoa butter-based round vaginal suppositories with less than 5% of citric acid. Specify the most rational approach to introduction of the active ingredient into the vehicle:

a. Dissolve in minimal quantity of purified water

- b. Dissolve in alcohol
- c. Dissolve in vaseline oil
- d. Dissolve in Dimexid (Dimethylsulfoxide)

e. Dissolve in molten cocoa butter

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c. Dissolve in alcohol

d. Dissolve in vaseline oil

e. Dissolve in Dimexid (Dimethylsulfoxide)

781. A pharmacist prepares fat-based suppositories by pouring. Specify the type of fatty vehicle in this case:

a. Butyrol

b. Cocoa butter

c. Wax

d. Spermaceti

e. Vaseline (petroleum jelly)

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784. A pharmacist prepares powders with riboflavin. How should riboflavin be introduced into the powder mixture?

a. Mix the components in the descending order based on their amount

b. Riboflavin powder should be sifted in advance

c. Mix the components in the ascending order based on their amount

d. Riboflavin should be added on the top of the prepared mixture of other ingredients

e. "Three layers" method

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c. "Three layers" method

d. Mix the components in the ascending order based on their amount

e. Riboflavin should be added on the top of the prepared mixture of other ingredients

787. A pharmacist prepares rectal suppositories in the pharmacy. Name the acceptable range, within which the average weight of such suppositories may vary:

a. 2.0-5.0

b. 4.0-7.0

c. 5.0-8.0

d. 1.0-4.0

e. 3.0-6.0

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a. 3.0-6.0

b. 5.0-8.0

c. 2.0-5.0

d. 1.0-4.0

e. 4.0-7.0

789. A pharmacist prepares suppositories by pouring. Name the coefficient for substitution of fatty vehicle with glycerinated gelatin vehicle:

a. 1.20

b. 1.11

c. 1.25

d. 1.31

e. 1.21

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a. 1.31

b. 1.25

c. 1.11

d. 1.21

e. 1.20

792. A pharmacist uses Vitapsol to prepare rectal suppositories. What fluid should be used in this case to lubricate the suppository form?

a. Spiritus saponatus

b. Purified water

c. Peach oil

d. Ethyl alcohol

e. Vaseline oil (liquid paraffin)

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795. A pharmacist-analyst of a control-analytical laboratory performs identification of a drug substance in accordance with the State Pharmacopoeia of Ukraine regulations. What result is observed during the test for benzoates with a solution of iron(III) chloride?

a. A pale yellow ether-soluble precipitate forms

b. A black precipitate forms, which dissolves if a diluted sodium hydroxide solution is added

c. The solution colors blue and becomes colorless after the addition of ammonia solution

d. A white precipitate forms, which is insoluble in a diluted hydrochloric acid

e. An intense blue coloring appears

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798. A pharmacy customer complains of constricting retrosternal pain that irradiates into the left arm; he fears that he may die. The pain appeared suddenly after physical exertion. Name the first aid medicine in this case:

a. Metacycline

b. Riboxin (Inosine)

c. Nitroglycerine

d. Naphthyzin (Naphazoline)

e. Panangin

799. A pharmacy customer complains of constricting retrosternal pain that irradiates into the left arm; he fears that he may die. The pain appeared suddenly after physical exertion. Name the first aid medicine in this case:

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801. A pharmacy customer complains of constricting, sometimes burning pain behind the sternum, with irradiation to the neck and left arm. The pain lasts for 5-10 minutes. What drug should be given to this customer for emergency aid?

a. Nitroglycerine

- b. Isosorbide dinitrate
- c. Nifedipine
- d. Bisoprolol
- e. Digoxin

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- b. Nitroglycerine**
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804. A pharmacy dispenses medical products, the cost of which must be reimbursed based on electronic prescriptions. What authority reimburses the pharmacy for the cost of dispensed drugs?

- a. National Health Service of Ukraine**
- b. Ministry of Labor and Social Policy of Ukraine
- c. State Expert Center of the Ministry of Health of Ukraine
- d. State Fiscal Service of Ukraine
- e. State Service of Ukraine on Medicines and Drugs Control

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- b. State Expert Center of the Ministry of Health of Ukraine
- c. State Fiscal Service of Ukraine
- d. National Health Service of Ukraine**
- e. Ministry of Labor and Social Policy of Ukraine

807. A pharmacy has bought a refrigerator. What document should be filled in for such purchase?

- a. An inventory list needs to be drawn up
- b. No accounting documentation needs to be kept
- c. It should be assigned an inventory number and registered in the inventory cards**
- d. A deposit order should be filled in
- e. Information should be entered into the goods report

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810. A pharmacy has decided to obtain a license to make extemporaneous preparations. For this purpose it purchased a refrigerator, a cabinet dryer, and other industrial equipment. The purchased equipment belongs to the following type of assets:

a. Fixed assets

b. Not accounted as assets

c. Package

d. Goods

e. Non-negotiable tangible assets

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b. Goods

c. Non-negotiable tangible assets

d. Fixed assets

e. Package

813. A pharmacy has received a batch of drugs according to the invoice. Who is authorized to conduct intake quality control when the goods arrive to the pharmacy?

a. Employee appointed to this task by the head manager

b. Head manager

c. Tax officer

d. Officer of a local division of the state inspectorate for drug quality control

e. Pharmacist

814. A pharmacy has received a batch of drugs according to the invoice. Who is authorized to conduct intake quality control when the goods arrive to the pharmacy?

a. Employee appointed to this task by the head manager

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c. Pharmacist

d. Officer of a local division of the state inspectorate for drug quality control

e. Head manager

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a. Officer of a local division of the state inspectorate for drug quality control

b. Tax officer

c. Employee appointed to this task by the head manager

d. Pharmacist

e. Head manager

816. A pharmacy has received a batch of herbal raw material - caraway fruits. What medicinal plant is cultivated for harvesting of this herbal raw material?

a. Anisum vulgare

b. Carum carvi

c. Coriandrum sativum

d. Foeniculum vulgare

e. Anethum graveolens

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c. Foeniculum vulgare

d. Anisum vulgare

e. Carum carvi

819. A pharmacy has received a formulation for eye drops with protargol (silver proteinate). What substance will be used to make the eye drops isotonic?

a. No isotonation is needed

b. Boric acid

c. Sodium sulfate

d. Sodium nitrate

e. Sodium chloride

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b. Sodium chloride

c. Boric acid

d. Sodium nitrate

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822. A pharmacy has received a formulation for the solution with a substance that moderately expands in the cold water. Name this substance:

a. Glucose

b. Gelatin

c. Calcium chloride

d. Sodium chloride

e. Protargol (Silver proteinate)

823. A pharmacy has received a formulation for the solution with a substance that moderately expands in the cold water. Name this substance:

a. Sodium chloride

b. Gelatin

c. Glucose

d. Calcium chloride

e. Protargol (Silver proteinate)

824. A pharmacy has received a formulation for the solution with a substance that moderately expands in the cold water. Name this substance:

a. Sodium chloride

b. Glucose

c. Gelatin

- d. Protargol (Silver proteinate)
- e. Calcium chloride

825. A pharmacy has received a prescription for colloid solution. Name this solution:

a. Collargol solution

- b. 5% glucose solution
- c. Sodium chloride solution
- d. Burow's solution
- e. Nonaqueous solution

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- a. 5% glucose solution
- b. Burow's solution
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a. Burow's solution

b. Collargol solution

- c. 5% glucose solution
- d. Sodium chloride solution
- e. Nonaqueous solution

828. A pharmacy has received a prescription for the preparation of a solution. What substance requires the presence of sodium chloride and a hot solvent during the dissolution?

- a. Sodium bromide
- b. Sodium iodide
- c. Streptocide (Sulfanilamide)
- d. Urotropin

e. Furacilin (Nitrofurazone)

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- e. Sodium iodide

831. A pharmacy has received a prescription for the preparation of powders. What substance must be added after sterilizing the powder?

a. Streptomycin sulfate

- b. Streptocide (Sulfanilamide)
- c. Ephedrine hydrochloride
- d. Osarsolum
- e. Magnesium oxide

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834. A pharmacy has received a prescription for tincture. What herbal raw material can be used to make this dosage form?

a. Valerian rootstock

- b. Buckthorn bark
- c. Rhubarb roots
- d. Oak bark
- e. Arrow-wood bark

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c. Valerian rootstock

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- e. Oak bark

837. A pharmacy has received a prescription written on an F-3 form. The dispensing chemist, tasked with the incoming control of the prescription, noted that it was missing certain mandatory details. Such prescription forms must always have the following:

a. Medical facility stamp, doctor's seal and signature, signature of the head manager of the medical facility, seal of the medical facility

- b. Signature of the head manager of the medical facility or signature of the deputy head manager for medical work
- c. Medical facility stamp, doctor's seal and signature, signature of the head manager of the medical facility
- d. Medical facility stamp, signature of the head manager of the medical facility, seal of the medical facility
- e. Doctor's personal seal and signature

838. A pharmacy has received a prescription written on an F-3 form. The dispensing chemist, tasked with the incoming control of the prescription, noted that it was missing certain mandatory details. Such prescription forms must always have the following:

- a. Doctor's personal seal and signature
- b. Medical facility stamp, signature of the head manager of the medical facility, seal of the medical facility
- c. Signature of the head manager of the medical facility or signature of the deputy head manager for medical work
- d. Medical facility stamp, doctor's seal and signature, signature of the head manager of the medical facility

e. Medical facility stamp, doctor's seal and signature, signature of the head manager of the medical facility, seal of the medical facility

839. A pharmacy has received a prescription, written in an incorrect format. In this case, the dispensing chemist, tasked with the incoming control of the prescriptions, must do the following:

a. Affix the <<Invalid prescription>> stamp to the prescription and return it to the patient

- b. Give the patient a copy of the prescription
- c. Sell this medicine to the patient
- d. Register the prescription in the log book and sell this medicine to the patient
- e. Notify the head manager of the pharmacy

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- a. Give the patient a copy of the prescription
- b. Sell this medicine to the patient
- c. Notify the head manager of the pharmacy
- d. Affix the <<Invalid prescription>> stamp to the prescription and return it to the patient**
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- d. Register the prescription in the log book and sell this medicine to the patient
- e. Affix the <<Invalid prescription>> stamp to the prescription and return it to the patient**

842. A pharmacy has received a receipt for preparation of a dermatological ointment with a non-specified vehicle. What vehicle should be used in this case?

- a. Vaseline**
- b. Gelatin-glycerine gel
- c. Vaseline and lanolin
- d. Lanolin
- e. Soap-glycerine base

843. A pharmacy has received a receipt for preparation of a dermatological ointment with a non-specified vehicle. What vehicle should be used in this case?

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- b. Vaseline and lanolin
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- d. Vaseline**
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- b. Lanolin
- c. Vaseline**
- d. Vaseline and lanolin
- e. Gelatin-glycerine gel

845. A pharmacy has received from its supplier a shipment of drugs that are included into the National Essential Drugs List. What is the pricing policy regarding these drugs?

- a. Fixed price
- b. Free-of-control price
- c. Indicative price
- d. Controlled price**
- e. Contract price

846. A pharmacy has received from its supplier a shipment of drugs that are included into the National Essential Drugs List. What is the pricing policy regarding these drugs?

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- b. Fixed price
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e. Controlled price

848. A pharmacy has received goods from a warehouse, which were delivered by the warehouse transport. Therefore, goods receipt requires the following accompanying document:

a. Specifications to the contract of delivery

b. Motor waybill

c. Financial statement of the supplier

d. All of the listed

e. Contract of delivery

849. A pharmacy has received goods from a warehouse, which were delivered by the warehouse transport. Therefore, goods receipt requires the following accompanying document:

a. Specifications to the contract of delivery

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a. Specifications to the contract of delivery

b. Contract of delivery

c. Financial statement of the supplier

d. Motor waybill

e. All of the listed

851. A pharmacy has received the following formulation: Rp.: Spiritus aethylici 20 ml Resorcini 0.2 M.D.S. Wipe the affected skin areas twice a day. endtabular What is the optimal preparation technique in this case?

a. Measure out ethyl alcohol into a vial for dispensing, measure out salicylic acid

b. Commminute the substance in a mortar, add the solvent

c. Measure out the substance into a vial for dispensing, measure out ethyl alcohol, shake the vial

d. Measure out the solvent into a stand, measure out the substance

e. Measure out the substance into a stand, measure out the solvent

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e. Commminute the substance in a mortar, add the solvent

854. A pharmacy has submitted its financial report for the first quarter of 2021. It contains the following information: turnover - 92 000 UAH, cost price of the goods sold - 60 000 UAH. Therefore, the price markup for this period amounts to:

a. 32 000 UAH

b. 90 000 UAH

- c. 62 000 UAH
- d. 2 000 UAH
- e. 60 000 UAH

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- b. 2 000 UAH
- c. 32 000 UAH**
- d. 60 000 UAH
- e. 90 000 UAH

856. A pharmacy has submitted its financial report for the first quarter of 2021. It contains the following information: turnover - 92 000 UAH, cost price of the goods sold - 60 000 UAH. Therefore, the price markup for this period amounts to:

- a. 90 000 UAH
- b. 32 000 UAH**
- c. 62 000 UAH
- d. 60 000 UAH
- e. 2 000 UAH

857. A pharmacy makes aqueous extracts. What extractant is used in preparation of infusions and decoctions?

- a. Purified water**
- b. Mint oil
- c. Peach oil
- d. Glycerin
- e. Ethyl alcohol

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- b. Ethyl alcohol
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- d. Peach oil
- e. Glycerin

860. A pharmacy makes medicines according to individual prescriptions. How often must the pharmacy staff change their working clothes?

- a. At least once a month
- b. At least twice a month

c. At least twice a week

- d. At least once per shift
- e. At least once a week

861. A pharmacy makes medicines according to individual prescriptions. How often must the pharmacy staff change their working clothes?

- a. At least once per shift
- b. At least once a month
- c. At least twice a month

d. At least twice a week

- e. At least once a week

862. A pharmacy makes medicines according to individual prescriptions. How often must the

pharmacy staff change their working clothes?

- a. At least once per shift
- b. At least once a week
- c. At least twice a month
- d. At least twice a week**
- e. At least once a month

863. A pharmacy manager has drawn up a work schedule for the next month. What type of management activity is aimed at making highly specific, detailed, short-term plans?

- a. Operational planning**
- b. Financial planning
- c. Strategic planning
- d. Business planning
- e. -

864. A pharmacy manager has drawn up a work schedule for the next month. What type of management activity is aimed at making highly specific, detailed, short-term plans?

- a. Strategic planning
- b. Operational planning**
- c. Business planning
- d. Financial planning
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865. A pharmacy manager has drawn up a work schedule for the next month. What type of management activity is aimed at making highly specific, detailed, short-term plans?

- a. Strategic planning
- b. Financial planning
- c. -
- d. Operational planning**
- e. Business planning

866. A pharmacy must be closed during inventory-taking. How long can this process take?

- a. No more than 10 days
- b. No more than 3 days**
- c. No more than 6 days
- d. No more than 7 days
- e. No more than 14 days

867. A pharmacy must be closed during inventory-taking. How long can this process take?

- a. No more than 10 days
- b. No more than 14 days
- c. No more than 6 days
- d. No more than 3 days**
- e. No more than 7 days

868. A pharmacy must be closed during inventory-taking. How long can this process take?

- a. No more than 6 days
- b. No more than 10 days
- c. No more than 3 days**
- d. No more than 14 days
- e. No more than 7 days

869. A pharmacy must keep the following receipts for 3 years, not counting the present one:

- a. Medicines provided for free or at a discount due to social benefit programs**
- b. Anabolic steroids at the full price
- c. Psychotropic drugs at the full price
- d. Clophelin (clonidine) tablets at the full price
- e. Narcotic substances in their pure form at the full price

870. A pharmacy must keep the following receipts for 3 years, not counting the present one:

- a. Medicines provided for free or at a discount due to social benefit programs**
- b. Psychotropic drugs at the full price
- c. Anabolic steroids at the full price

- d. Clophelin (clonidine) tablets at the full price
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- a. Narcotic substances in their pure form at the full price
- b. Anabolic steroids at the full price
- c. Psychotropic drugs at the full price
- d. Medicines provided for free or at a discount due to social benefit programs**
- e. Clophelin (clonidine) tablets at the full price

872. A pharmacy needs to prepare a 1% alcohol solution of methylene blue. What concentration of alcohol must be used for this purpose?

- a. 40%
- b. 70%
- c. 90%
- d. 60%**
- e. 96%

873. A pharmacy needs to prepare a 1% alcohol solution of methylene blue. What concentration of alcohol must be used for this purpose?

- a. 40%
- b. 90%
- c. 60%**
- d. 96%
- e. 70%

874. A pharmacy needs to prepare a 1% alcohol solution of methylene blue. What concentration of alcohol must be used for this purpose?

- a. 70%
- b. 40%
- c. 96%
- d. 60%**
- e. 90%

875. A pharmacy needs to prepare a furacilin (nitrofurazone) solution (1:5000). What are the specifics of furacilin dissolution?

- a. In the cold purified water
- b. In the boiling water in the presence of sodium chloride**
- c. In the purified water, after grinding it down
- d. In the purified water, filtered in advance
- e. In the minimal amount of ethanol

876. A pharmacy needs to prepare a furacilin (nitrofurazone) solution (1:5000). What are the specifics of furacilin dissolution?

- a. In the minimal amount of ethanol
- b. In the boiling water in the presence of sodium chloride**
- c. In the purified water, after grinding it down
- d. In the purified water, filtered in advance
- e. In the cold purified water

877. A pharmacy needs to prepare a furacilin (nitrofurazone) solution (1:5000). What are the specifics of furacilin dissolution?

- a. In the purified water, filtered in advance
- b. In the minimal amount of ethanol
- c. In the purified water, after grinding it down
- d. In the cold purified water
- e. In the boiling water in the presence of sodium chloride**

878. A pharmacy offers to its customers a chance to measure their blood pressure. What type of goods is it?

- a. Nondurable goods
- b. Convenience goods
- c. Specialty goods

d. Unsought goods

e. Service

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a. Unsought goods

b. Service

- c. Specialty goods
- d. Nondurable goods
- e. Convenience goods

881. A pharmacy opens a bank account to store funds and conduct ongoing business transactions. What kind of account should be opened?

a. Current

- b. Investment
- c. Letter of credit
- d. Deposit
- e. Provisional

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- a. Provisional
- b. Investment
- c. Letter of credit
- d. Deposit

e. Current

884. A pharmacy owner starts a business in the retail sale of medicines. What document allows the pharmacy owner to trade for cash in his pharmacy?

a. -

b. Trade patent

- c. State registration certificate
- d. License for production of medicines
- e. Quality certificate

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e. Quality certificate

887. A pharmacy pays considerable attention to the technique of medicine placement in the glass cabinets and on the shelves to create favorable conditions for sales and attracting the attention of consumers. Name this set of measures:

a. Advertising

b. Merchandising

c. Public relations

d. Personal sale

e. Lobbying

888. A pharmacy pays considerable attention to the technique of medicine placement in the glass cabinets and on the shelves to create favorable conditions for sales and attracting the attention of consumers. Name this set of measures:

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a. Personal sale

b. Lobbying

c. Advertising

d. Merchandising

e. Public relations

890. A pharmacy prepares 10% sodium chloride injection solution. What sterilization would be optimal in this case?

a. Autoclave chamber with high-pressure saturated steam

b. Irradiation sterilization

c. Sterile filtration through membrane

d. Gas sterilization

e. Dry-heat sterilization

891. A pharmacy prepares 10% sodium chloride injection solution. What sterilization would be optimal in this case?

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b. Sterile filtration through membrane

c. Gas sterilization

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e. Dry-heat sterilization

893. A pharmacy prepares a drug that contains a high-molecular compound with unlimited swelling ability. Name this material:

a. Methylcellulose

b. Pepsin

c. Starch

d. Protargol

e. Gelatine

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- b. Protargol
- c. Pepsin**
- d. Starch
- e. Gelatine

896. A pharmacy prepares an aqueous extract of thermopsis grass. What components should be used to prepare this aqueous extract?

- a. Thermopsis grass, sodium bicarbonate, purified water
- b. Thermopsis grass, purified water
- c. Thermopsis grass, sodium chloride, purified water
- d. Thermopsis grass, hydrochloric acid solution 1:10, purified water**
- e. Thermopsis tincture, purified water

897. A pharmacy prepares an aqueous extract of thermopsis grass. What components should be used to prepare this aqueous extract?

- a. Thermopsis tincture, purified water
- b. Thermopsis grass, purified water
- c. Thermopsis grass, sodium chloride, purified water
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- b. Thermopsis grass, sodium chloride, purified water
- c. Thermopsis grass, purified water
- d. Thermopsis grass, hydrochloric acid solution 1:10, purified water**
- e. Thermopsis grass, sodium bicarbonate, purified water

899. A pharmacy prepares drugs by individual prescriptions. How often should the floors be mopped down in the prescription department?

- a. Once in a shift**
- b. Once every 10 days
- c. Once in a week
- d. Once every 5 days
- e. Once every 3 days

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- d. Once in a shift**

e. Once every 10 days

902. A pharmacy prepares extemporaneous drugs. Who sets the retail prices and labor charges for these pharmacy-made medicines?

- a. Inspectorate for medicine quality control
- b. Regional state administration
- c. The Ministry of Health

d. Pharmacy

e. Local council

903. A pharmacy prepares extemporaneous drugs. Who sets the retail prices and labor charges for these pharmacy-made medicines?

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- b. Regional state administration
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- a. Regional state administration
- b. The Ministry of Health
- c. Inspectorate for medicine quality control
- d. Local council

e. Pharmacy

905. A pharmacy prepares sodium chloride solutions for injections or infusions. What are the additional requirements to the quality of sodium chloride for infusion solutions?

- a. No manganese salt admixtures
- b. Analytical grade pure
- c. Anhydrous, analytical grade pure
- d. Type <<for injections>>

e. Chemically pure, depyrogenated

906. A pharmacy prepares sodium chloride solutions for injections or infusions. What are the additional requirements to the quality of sodium chloride for infusion solutions?

a. Type <<for injections>>

b. Chemically pure, depyrogenated

- c. Analytical grade pure
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- e. Anhydrous, analytical grade pure

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908. A pharmacy provides certain categories of ill persons with medicines free of charge or at a reduced price. What conditions allow free of charge supply of out-patients with necessary medicines?

- a. Cold
- b. Headache

c. Diabetes mellitus

- d. Cuts and abrasions
- e. Muscle pain

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- e. Headache

911. A pharmacy receives centralized deliveries of goods from the warehouse. Specify the document that is **NOT** NECESSARY for accounting of goods receipt by the pharmacy:

- a. Financial operating report of the pharmacy

b. Cash receipt order

- c. Goods received record book by item and supplier
- d. Goods report (Inventory change report)
- e. Goods received record book by groups of goods

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- a. Goods received record book by groups of goods
- b. Financial operating report of the pharmacy

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- c. Goods report (Inventory change report)
- d. Financial operating report of the pharmacy
- e. Goods received record book by groups of goods

914. A pharmacy sells various medicines. What medicine is a subject to strict accounting in a special inventory log?

a. Tramadol, tablets

- b. Retabolil (Nandrolone)
- c. Gentamicin sulfate
- d. Hydrocortisone acetate
- e. Microfollin (Ethinylestradiol), tablets

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c. Tramadol, tablets

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c. Tramadol, tablets

- d. Gentamicin sulfate
- e. Hydrocortisone acetate

917. A pharmacy supplies the surgical ward of a hospital. What document enables the dispensing chemist to supply the goods:

- a. Product revaluation notice
- b. Report on the movement of packaging

c. Purchase order

d. Receipt log book

e. Consolidated register

918. A pharmacy supplies the surgical ward of a hospital. What document enables the dispensing chemist to supply the goods:

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b. Report on the movement of packaging

c. Purchase order

d. Consolidated register

e. Product revaluation notice

920. A pharmacy supplies with medicines various groups of patients. Children of what age group receive drugs for free during their outpatient treatment?

a. Under 3 years of age

b. Under 10 years of age

c. From 3 to 6 years of age

d. Under 6 years of age

e. Under 16 years of age

921. A pharmacy supplies with medicines various groups of patients. Children of what age group receive drugs for free during their outpatient treatment?

a. From 3 to 6 years of age

b. Under 10 years of age

c. Under 6 years of age

d. Under 3 years of age

e. Under 16 years of age

922. A pharmacy supplies with medicines various groups of patients. Children of what age group receive drugs for free during their outpatient treatment?

a. From 3 to 6 years of age

b. Under 16 years of age

c. Under 3 years of age

d. Under 10 years of age

e. Under 6 years of age

923. A pharmacy underwent a drug quality inspection on 25.02.2018. The inspector discovered that the pharmacy had a batch of Nimesil (Nimesulide) drug, dosage form 2 g x 30 sachets, with its registration certificate expired on 24.02.2018. Is the pharmacy allowed to sell this drug?

a. Yes, if approved by the head manager of the pharmacy

b. No

c. Yes, with permit from the Pharmacopoeia Center

d. Yes, it can sell all the batch that is already in its possession

e. Yes, with permit from the State Inspectorate

924. A pharmacy underwent a drug quality inspection on 25.02.2018. The inspector discovered that the pharmacy had a batch of Nimesil (Nimesulide) drug, dosage form 2 g x 30 sachets, with its registration certificate expired on 24.02.2018. Is the pharmacy allowed to sell this drug?

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- d. Yes, it can sell all the batch that is already in its possession
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926. A pharmacy visitor approached the pharmacist with complaints of constricting retrosternal pain that radiates under the left scapula. The pain occurred after physical exertion and lasts approximately 5 minutes already. What medicine should be recommended to this visitor to stop the pain attack?

a. Nitroglycerin

- b. Diclofenac sodium
- c. Captopril
- d. Bisoprolol
- e. Drotaverine

927. A pharmacy visitor approached the pharmacist with complaints of constricting retrosternal pain that radiates under the left scapula. The pain occurred after physical exertion and lasts approximately 5 minutes already. What medicine should be recommended to this visitor to stop the pain attack?

a. Nitroglycerin

- b. Diclofenac sodium
- c. Drotaverine
- d. Captopril
- e. Bisoprolol

928. A pharmacy visitor approached the pharmacist with complaints of constricting retrosternal pain that radiates under the left scapula. The pain occurred after physical exertion and lasts approximately 5 minutes already. What medicine should be recommended to this visitor to stop the pain attack?

- a. Captopril
- b. Bisoprolol
- c. Drotaverine

d. Nitroglycerin

- e. Diclofenac sodium

929. A pharmacy visitor asked the pharmacist to recommend her an anthelmintic drug that would be effective against Ascaris roundworms. Select one such drug from the list.

a. Piperazine

- b. Riboflavin
- c. Calcitonin
- d. Ribavirin
- e. Pyrazinamide

930. A pharmacy visitor asked the pharmacist to recommend her an anthelmintic drug that would be effective against Ascaris roundworms. Select one such drug from the list.

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d. Piperazine

- e. Pyrazinamide

931. A pharmacy visitor periodically feels constricting pain behind the sternum. Explain to this visitor, what contraindication exists for taking nitroglycerin.

a. Angle-closure glaucoma

- b. Pulmonary fibrosis
- c. Heart failure
- d. Kidney failure
- e. Peptic ulcer disease

932. A pharmacy visitor periodically feels constricting pain behind the sternum. Explain to this visitor, what contraindication exists for taking nitroglycerin.

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c. Angle-closure glaucoma

d. Heart failure

e. Peptic ulcer disease

934. A pharmacy warehouse has received a shipment of drugs. During quality control by an authorized person, there were some drugs of questionable quality detected. What measures should be taken by the authorized person in this case?

a. Samples of questionable drugs should be sent to the local inspectorate department; the rest of the drug shipment should be quarantined with marking "Do not sell until further notice"

b. Draw up a Quality Assessment Report with the defects listed and allow sale of the drug shipment

c. Dispose of the shipment that contains questionable drugs

d. Return the shipment to the manufacturer

e. Allow sale of the drug shipment

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b. Samples of questionable drugs should be sent to the local inspectorate department; the rest of the drug shipment should be quarantined with marking "Do not sell until further notice"

c. Dispose of the shipment that contains questionable drugs

d. Draw up a Quality Assessment Report with the defects listed and allow sale of the drug shipment

e. Allow sale of the drug shipment

937. A phytochemical department of a factory produces Calendula tincture. What herbal raw material is used in the manufacturing process?

a. Grass

b. Roots

c. Roots, rhizomes, and grass

d. Leaves and essential oil

e. Flowers

938. A phytochemical department of a factory produces Calendula tincture. What herbal raw material is used in the manufacturing process?

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- b. Roots
- c. Leaves and essential oil
- d. Grass

e. Flowers

940. A potassium permanganate solution needs to be prepared for a patient. What solvent should be used in this case?

- a. Demineralized water
- b. Freshly prepared purified water**
- c. Ethyl alcohol
- d. Mint water
- e. Water for injections

941. A potassium permanganate solution needs to be prepared for a patient. What solvent should be used in this case?

- a. Mint water
- b. Freshly prepared purified water**
- c. Ethyl alcohol
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e. Freshly prepared purified water

943. A powder containing a substance with specific weight has been prepared in a pharmacy. Name this substance:

- a. Bolus alba
- b. Basic bismuth nitrate**
- c. Talcum
- d. Sodium bicarbonate
- e. Sugar

944. A powder containing a substance with specific weight has been prepared in a pharmacy. Name this substance:

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- b. Talcum
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- b. Sodium bicarbonate
- c. Bolus alba
- d. Basic bismuth nitrate**
- e. Sugar

946. A powder with a hard to disintegrate substance has been made in a pharmacy. Specify this substance:

- a. Camphor**
- b. Osarsolum (Acetarsol)
- c. Sugar
- d. Sodium chlorides
- e. Talcum

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- b. Sodium chlorides
- c. Osarsolum (Acetarsol)
- d. Talcum

e. Camphor

949. A pregnant woman complains of elevated blood pressure up to 160/100. What hypotensive drug should she use in this case?

- a. Enalapril

b. Methyldopa

- c. Bisoprolol
- d. Losartan
- e. Reserpine

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- a. Reserpine
- b. Losartan
- c. Bisoprolol

d. Methyldopa

- e. Enalapril

952. A pregnant woman with signs of acute rhinitis came to a pharmacy. What drug for symptomatic treatment of rhinitis will be the safest in this case?

a. Salt solutions based on iso- and hypotonic sodium chloride solutions

- b. Xylometazoline preparations
- c. Beclomethasone preparations
- d. Cromoglicic acid preparations
- e. Essential oil-based preparations

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d. Salt solutions based on iso- and hypotonic sodium chloride solutions

- e. Cromoglicic acid preparations

955. A prescription does not specify the shape of rectal suppositories. What shape would be optimal

in such case and therefore should be used by the pharmacist?

- a. Pessary
- b. Torpedo**
- c. Cylinder
- d. Ovoid
- e. Sphere

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957. A prescription does not specify the shape of rectal suppositories. What shape would be optimal in such case and therefore should be used by the pharmacist?

- a. Sphere
- b. Cylinder
- c. Ovoid
- d. Torpedo**
- e. Pessary

958. A private pharmacy has received a supply of a drug with 2,3-dihydro-2-methyl-1,4-naphthoquinone-2-sulfonate sodium as an active ingredient. Name this drug:

- a. Vicasol (Menadione)**
- b. Rutin
- c. Riboflavin
- d. Ergocalciferol
- e. Cocarboxylase hydrochloride

959. A private pharmacy has received a supply of a drug with 2,3-dihydro-2-methyl-1,4-naphthoquinone-2-sulfonate sodium as an active ingredient. Name this drug:

- a. Rutin
- b. Vicasol (Menadione)**
- c. Cocarboxylase hydrochloride
- d. Riboflavin
- e. Ergocalciferol

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- e. Cocarboxylase hydrochloride

961. A process dealing with drawing the documents, their processing, circulation and storage is called records management. If all documents circulate through one organization center, - the Office Desk, - then such system of records management is called:

- a. Referent
- b. Centralized**
- c. Mixed
- d. Decentralized
- e. Specialized

962. A process dealing with drawing the documents, their processing, circulation and storage is called records management. If all documents circulate through one organization center, - the Office Desk, - then such system of records management is called:

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- d. Specialized

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963. A process dealing with drawing the documents, their processing, circulation and storage is called records management. If all documents circulate through one organization center, - the Office Desk, - then such system of records management is called:

- a. Specialized
- b. Decentralized
- c. Mixed

d. Centralized

e. Referent

964. A refractometer is used to identify and test the glycerine substance. What parameter is measured using this device?

- a. Angle of rotation
- b. Melting point
- c. Optical density
- d. Dynamic viscosity

e. Refractive index

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967. A regional pharmaceutical market has a large number of pharmaceutical companies, none of which is able to control the market prices. The companies offer interchangeable medicines. What type of market is it?

a. Market with pure (free) competition

- b. Pure monopoly market
- c. Oligopolistic market
- d. Limited monopoly market
- e. -

968. A regional pharmaceutical market has a large number of pharmaceutical companies, none of which is able to control the market prices. The companies offer interchangeable medicines. What type of market is it?

- a. -
- b. Limited monopoly market

c. Market with pure (free) competition

- d. Oligopolistic market
- e. Pure monopoly market

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- b. Pure monopoly market

c. -

d. Limited monopoly market

e. Market with pure (free) competition

970. A set of values, traditions, behavioral norms, and views inherent to an organisation characterizes its following feature:

a. Culture

b. Profitability

c. Self-development capability

d. Capitalization level

e. Success

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972. A set of values, traditions, behavioral norms, and views inherent to an organisation characterizes its following feature:

a. Self-development capability

b. Profitability

c. Success

d. Culture

e. Capitalization level

973. A substance was received for analysis. The substance is a round seed 1-1,8 mm in diameter, yellow with bluish tint. When mashed with water, emits characteristic irritant odor; is sharp and acrid to taste. The raw material can be identified as:

a. Mustard seeds

b. Plantago psyllium seeds

c. Flax seeds

d. Nigella seeds

e. Fenugreek seeds

974. A substance was received for analysis. The substance is a round seed 1-1,8 mm in diameter, yellow with bluish tint. When mashed with water, emits characteristic irritant odor; is sharp and acrid to taste. The raw material can be identified as:

a. Flax seeds

b. Mustard seeds

c. Nigella seeds

d. Fenugreek seeds

e. Plantago psyllium seeds

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976. A sum of properties that make the medicines capable of meeting the needs of the consumers, when used as intended, is called:

a. Quality

b. Pharmacological action

c. Trade dress

d. Appearance

e. Marking

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979. A system of indicators characterizes financial and business activity of an organization and the state of its assets and sources on the certain day in the monetary unit. Name this system:

a. Balance sheet

b. Receipts and expenditures report

c. Turnover balance sheet

d. Double entry

e. Business transactions log book

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982. A technological controller uses Marquis reagent to identify the substance of acetylsalicylic acid after acid hydrolysis. Positive effect of the reaction would be indicated by the following coloring:

a. Pink

b. Violet

c. Blue

d. Yellow

e. Green

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984. A teenager with hyporexia has been recommended to drink medicinal herbal tea of the following composition: Herba Absinthii, Herba Millefolii. Specify the characteristic microscopic features of *Artemisia absinthium*, which indicate its presence in the herb mixture:

a. T-shaped hairs along the leaf edge

b. Branched, simple and ciliated hairs

c. Retor-shaped hairs

- d. Simple and capitate hairs
- e. Branched and capitate hairs

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987. A thymol-containing herbal raw material is stored in the warehouse of a pharmaceutical company. What are its proper storage conditions?

- a. Under the temperature of -5°C
- b. Under CO_2 -free conditions
- c. Under normal conditions

d. Separate from the others

- e. In metal containers

988. A thymol-containing herbal raw material is stored in the warehouse of a pharmaceutical company. What are its proper storage conditions?

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990. A tincture of *Fructus Capsici* is used as a distracting agent and an irritant in cases of neuralgia, radiculitis, and myositis. What bioactive substance of *Fructus Capsici* has such an effect?

a. Capsaicin

- b. Ephedrine
- c. Colchicine
- d. Schisandrin
- e. Inulin

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993. A woman at the third trimester of her pregnancy fell ill with pneumonia. A doctor prescribed her a fluoroquinolone. What negative effect can it have on the fetus?

a. Chondrotoxic

- b. Nephrotoxic
- c. Neurotoxic
- d. Hematotoxic
- e. Hepatotoxic

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996. A woman came to a doctor with complaints of heartburn. She has been taking diclofenac sodium for a long time due to diagnosed rheumatoid arthritis. What medicine can the doctor prescribe for the prevention of gastropathy?

a. Omeprazole

- b. Papaverine hydrochloride
- c. Acetylsalicylic acid
- d. Metoclopramide
- e. Clarithromycin

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999. A woman suddenly developed an angina pectoris attack. To arrest the attack, she took a medicine that caused her a severe headache, facial hyperemia, and tachycardia. Such side effects are characteristic of the following group of drugs:

a. Nitrates

- b. Alpha-adrenergic agonists

- c. Antispasmodics
- d. Beta-adrenergic antagonists
- e. Calcium channel blockers

1000. A woman suddenly developed an angina pectoris attack. To arrest the attack, she took a medicine that caused her a severe headache, facial hyperemia, and tachycardia. Such side effects are characteristic of the following group of drugs:

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1002. A woman wants to stock the home first aid kit for her 4-month-old baby. She asked a dispensing chemist to recommend her an antipyretic for this purpose. What medicine and what dosage form would you recommend in this case?

- a. Acetylsalicylic acid powder

- b. Diclofenac sodium tablets

c. Paracetamol rectal suppositories

- d. Ibuprofen tablets

- e. Acetylsalicylic acid tablets

1003. A woman wants to stock the home first aid kit for her 4-month-old baby. She asked a dispensing chemist to recommend her an antipyretic for this purpose. What medicine and what dosage form would you recommend in this case?

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- d. Acetylsalicylic acid powder

- e. Diclofenac sodium tablets

1004. A woman with chronic bronchitis was prescribed azithromycin. After a time, she developed complaints of abdominal pain and distension, diarrhea, nausea, and vomiting. What side effect is observed in this patient?

a. Dysbiosis

- b. Allergic response

- c. Chondrotoxicity

- d. Photosensitization

- e. Nephrotoxicity

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- b. Allergic response
- c. Photosensitization
- d. Nephrotoxicity

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1007. A woman with diabetes mellitus has developed hypoglycemia after insulin overdose. What measures should be taken at the first signs of hypoglycemia?

- a. Introduce 0.1% adrenaline solution subcutaneously
- b. Give nitroglycerine sublingually
- c. Make an insulin injection
- d. Make an intramuscular injection of caffeine

e. Give the patient a sugar lump to eat and a cup of warm sweetened tea

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- b. Make an intramuscular injection of caffeine
- c. Give nitroglycerine sublingually
- d. Introduce 0.1% adrenaline solution subcutaneously

e. Give the patient a sugar lump to eat and a cup of warm sweetened tea

1010. A woman with diabetes mellitus has injected herself with 30 units of insulin. After that she developed weakness and came to the pharmacy to ask for help. In the pharmacy she lost her consciousness and developed convulsions. What should she be given immediately?

- a. Butamide (Tolbutamide)

b. Glucose

- c. Insulin
- d. Glibenclamid
- e. Metformin

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1013. A woman with open tuberculosis is undergoing in-patient treatment in the tuberculosis clinic. What drug was prescribed by her physician for etiotropic treatment?

a. Isoniazid

- b. Acyclovir
- c. Metronidazole
- d. Benzylpenicillin (Penicillin G)

e. Doxycycline hydrochloride

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1016. A young mother has come to a pharmacy to buy an antipyretic drug for her 3-month-old infant. What dosage form would you choose for the infant?

a. Capsules

b. Suppositories

c. Spray

d. Lozenges

e. Tablets

1017. A young mother has come to a pharmacy to buy an antipyretic drug for her 3-month-old infant. What dosage form would you choose for the infant?

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1018. A young mother has come to a pharmacy to buy an antipyretic drug for her 3-month-old infant. What dosage form would you choose for the infant?

a. Tablets

b. Suppositories

c. Lozenges

d. Capsules

e. Spray

1019. According to Decree №360 issued by the Ministry of Health of Ukraine, there is a list of medicines that cannot be prescribed to outpatients. Select one such drug from the list below:

a. Nitrous oxide

b. Tramadol

c. Zopiklon

d. Atropine sulfate

e. Tetracaine

1020. According to Decree №360 issued by the Ministry of Health of Ukraine, there is a list of medicines that cannot be prescribed to outpatients. Select one such drug from the list below:

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1022. According to ecological survey, a certain pharmaceutical manufacturer holds the first place among the local "green" industries. What marketing concept is chosen by this manufacturer in relations with its customers?

- a. Intensification of commercial effort
- b. Integrated marketing
- c. Production development
- d. Product development

e. Socio-ethical marketing

1023. According to ecological survey, a certain pharmaceutical manufacturer holds the first place among the local "green" industries. What marketing concept is chosen by this manufacturer in relations with its customers?

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- d. Product development
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1025. According to the State Pharmacopoeia of Ukraine monograph, alkalimetry should be used for the quantitative determination of the nicotinic acid. What is used as an indicator in this case?

a. Phenolphthalein

- b. Calconcarbonic acid
- c. Sodium eosinate
- d. Methylene blue
- e. Potassium chromate

1026. According to the State Pharmacopoeia of Ukraine monograph, alkalimetry should be used for the quantitative determination of the nicotinic acid. What is used as an indicator in this case?

- a. Potassium chromate
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- b. Sodium eosinate
- c. Calconcarbonic acid
- d. Methylene blue

e. Phenolphthalein

1028. According to the State Pharmacopoeia of Ukraine quantitative content of salicylic acid is to be determined by means of:

- a. Acidimetry

b. Alkalimetry

- c. Argentometry
- d. Nitritometric titration
- e. Complexometric titration

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determined by means of:

- a. Acidimetry
- b. Argentometry

c. Alkalimetry

- d. Complexometric titration
- e. Nitritometric titration

1030. According to the State Pharmacopoeia of Ukraine quantitative content of salicylic acid is to be determined by means of:

- a. Argentometry
- b. Complexometric titration
- c. Nitritometric titration
- d. Acidimetry

e. Alkalimetry

1031. According to the State Pharmacopoeia of Ukraine regulations, valine amino acid should be identified by means of thin-layer chromatography. To develop a chromatogram, the following reagent should be used:

a. Ninhydrin

- b. 2,4-Dinitrochlorobenzene
- c. Cyanogen bromide
- d. Concentrated ammonia
- e. 2,4-Dinitrophenylhydrazine

1032. According to the State Pharmacopoeia of Ukraine regulations, valine amino acid should be identified by means of thin-layer chromatography. To develop a chromatogram, the following reagent should be used:

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- e. 2,4-Dinitrochlorobenzene

1034. According to the State Pharmacopoeia of Ukraine, an analytical chemist can determine sulfate admixtures in sodium tetraborate by the effect of white opalescence that results from its reaction with the following solution:

a. Barium chloride

- b. Ammonium oxalate
- c. Sodium sulfide
- d. Magnesium sulfate
- e. Silver nitrate

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- b. Magnesium sulfate
- c. Sodium sulfide
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- b. Barium chloride**
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- d. Magnesium sulfate
- e. Ammonium oxalate

1037. According to the State Pharmacopoeia of Ukraine, an analytical chemist determines quantitative content of potassium acetate by means of acidimetry in non-aqueous medium. Name the volumetric solution in this case:

- a. Iodine
- b. Potassium bromate
- c. Sodium hydroxide
- d. Perchloric acid**
- e. Sodium nitrite

1038. According to the State Pharmacopoeia of Ukraine, an analytical chemist determines quantitative content of potassium acetate by means of acidimetry in non-aqueous medium. Name the volumetric solution in this case:

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- c. Perchloric acid**
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- a. Sodium hydroxide
- b. Sodium nitrite
- c. Potassium bromate
- d. Perchloric acid**
- e. Iodine

1040. According to the State Pharmacopoeia of Ukraine, an analytical chemist should use acidimetry in non-aqueous medium to determine quantitative content of the following purine alkaloid:

- a. Caffeine**
- b. Theobromine
- c. Theophylline ethylenediamine
- d. Theophylline
- e. Caffeine and sodium benzoate

1041. According to the State Pharmacopoeia of Ukraine, an analytical chemist should use acidimetry in non-aqueous medium to determine quantitative content of the following purine alkaloid:

- a. Caffeine and sodium benzoate
- b. Caffeine**
- c. Theophylline
- d. Theophylline ethylenediamine
- e. Theobromine

1042. According to the State Pharmacopoeia of Ukraine, an analytical chemist should use acidimetry in non-aqueous medium to determine quantitative content of the following purine alkaloid:

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- b. Theophylline
- c. Theophylline ethylenediamine
- d. Caffeine**
- e. Caffeine and sodium benzoate

1043. According to the State Pharmacopoeia of Ukraine, cerimetry should be used to determine the quantitative content of paracetamol. What solution is used as a titrant in this case?

- a. Cerium sulfate**
- b. Potassium permanganate

- c. Silver nitrate
- d. Iodine monochloride
- e. Hydrochloric acid

1044. According to the State Pharmacopoeia of Ukraine, cerimetry should be used to determine the quantitative content of paracetamol. What solution is used as a titrant in this case?

- a. Hydrochloric acid
- b. Iodine monochloride
- c. Silver nitrate
- d. Potassium permanganate

e. Cerium sulfate

1045. According to the State Pharmacopoeia of Ukraine, cerimetry should be used to determine the quantitative content of paracetamol. What solution is used as a titrant in this case?

- a. Potassium permanganate
- b. Silver nitrate
- c. Iodine monochloride
- d. Hydrochloric acid

e. Cerium sulfate

1046. According to the State Pharmacopoeia of Ukraine, chemical identification of *Atropa belladonna* grass must be carried out using thin-layer chromatography. What substance is identified on a chromatographic plate after treatment with a reagent?

- a. Arbutin
- b. Gallic acid
- c. Rutin

d. Hyoscyamine

e. Vinblastine

1047. According to the State Pharmacopoeia of Ukraine, chemical identification of *Atropa belladonna* grass must be carried out using thin-layer chromatography. What substance is identified on a chromatographic plate after treatment with a reagent?

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- b. Rutin

c. Hyoscyamine

d. Gallic acid

e. Arbutin

1049. According to the State Pharmacopoeia of Ukraine, phthalylsulfathiazole is quantitatively determined by means of alkalimetry in non-aqueous medium. The following substance is used as a solvent in this case:

a. Dimethyl formamide

- b. Benzene
- c. Ethyl alcohol
- d. Anhydrous acetic acid
- e. Chloroform

1050. According to the State Pharmacopoeia of Ukraine, phthalylsulfathiazole is quantitatively determined by means of alkalimetry in non-aqueous medium. The following substance is used as a solvent in this case:

- a. Benzene
- b. Ethyl alcohol
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1051. According to the State Pharmacopoeia of Ukraine, phthalylsulfathiazole is quantitatively determined by means of alkalimetry in non-aqueous medium. The following substance is used as a solvent in this case:

- a. Ethyl alcohol
- b. Chloroform
- c. Anhydrous acetic acid

d. Dimethyl formamide

e. Benzene

1052. According to the State Pharmacopoeia of Ukraine, the herbal raw material used in production of plantaglucide should be tested by means of thin-layer chromatography. The resulting chromatogram will have a weak blue zone, which will indicate the presence of:

a. Acteoside

b. Aucubin

- c. Acorone
- d. Atropine
- e. Azulene

1053. According to the State Pharmacopoeia of Ukraine, the herbal raw material used in production of plantaglucide should be tested by means of thin-layer chromatography. The resulting chromatogram will have a weak blue zone, which will indicate the presence of:

- a. Acteoside
- b. Atropine
- c. Acorone
- d. Azulene

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1054. According to the State Pharmacopoeia of Ukraine, the herbal raw material used in production of plantaglucide should be tested by means of thin-layer chromatography. The resulting chromatogram will have a weak blue zone, which will indicate the presence of:

- a. Atropine
- b. Acteoside

c. Aucubin

- d. Azulene
- e. Acorone

1055. According to the State Pharmacopoeia of Ukraine, the tablets taken internally can be classified into several different types. The pulsatile release tablets can be classified as:

a. Modified-release tablets

- b. Soluble tablets
- c. Effervescent tablets
- d. Dispersible tablets
- e. Chewable tablets

1056. According to the State Pharmacopoeia of Ukraine, the tablets taken internally can be classified into several different types. The pulsatile release tablets can be classified as:

- a. Dispersible tablets
- b. Effervescent tablets
- c. Soluble tablets

d. Modified-release tablets

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1057. According to the State Pharmacopoeia of Ukraine, the tablets taken internally can be classified into several different types. The pulsatile release tablets can be classified as:

- a. Soluble tablets
- b. Chewable tablets
- c. Effervescent tablets
- d. Dispersible tablets

e. Modified-release tablets

1058. According to the State Pharmacopoeia of Ukraine, to identify glucose solution for injections, its optical rotation angle should be measured. What chemophysical method is used in such cases?

a. Polarimetry

b. Nuclear magnetic resonance spectroscopy

c. Infrared spectroscopy

d. Refractometry

e. Thin-layer chromatography

1059. According to the State Pharmacopoeia of Ukraine, to identify glucose solution for injections, its optical rotation angle should be measured. What chemophysical method is used in such cases?

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b. Polarimetry

c. Nuclear magnetic resonance spectroscopy

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1060. According to the State Pharmacopoeia of Ukraine, to identify glucose solution for injections, its optical rotation angle should be measured. What chemophysical method is used in such cases?

a. Thin-layer chromatography

b. Infrared spectroscopy

c. Refractometry

d. Nuclear magnetic resonance spectroscopy

e. Polarimetry

1061. According to the current Ukrainian legislation all drugs are divided into two categories: prescription and nonprescription (over-the-counter). Which one of the listed drugs requires no prescription?

a. Ketamine, 5% infusion solution, 2 ml №10

b. Ascorbic acid, 500 mg №30

c. Clonidine, ampoules, 1 ml of 0,01% solution №10

d. Tramadol, capsules, 0,05 №10

e. Phenobarbital, tablets, 100 mg №6

1062. According to the current Ukrainian legislation all drugs are divided into two categories: prescription and nonprescription (over-the-counter). Which one of the listed drugs requires no prescription?

a. Phenobarbital, tablets, 100 mg №6

b. Ketamine, 5% infusion solution, 2 ml №10

c. Clonidine, ampoules, 1 ml of 0,01% solution №10

d. Tramadol, capsules, 0,05 №10

e. Ascorbic acid, 500 mg №30

1063. According to the current Ukrainian legislation all drugs are divided into two categories: prescription and nonprescription (over-the-counter). Which one of the listed drugs requires no prescription?

a. Tramadol, capsules, 0,05 №10

b. Phenobarbital, tablets, 100 mg №6

c. Clonidine, ampoules, 1 ml of 0,01% solution №10

d. Ascorbic acid, 500 mg №30

e. Ketamine, 5% infusion solution, 2 ml №10

1064. According to the law regulating labour remuneration, the businesses must establish their compensation plan in the following document:

a. Collective agreement

b. Statement

c. Job description

d. Contract of delivery

e. Decree

1065. According to the law regulating labour remuneration, the businesses must establish their compensation plan in the following document:

a. Decree

b. Collective agreement

- c. Statement
- d. Job description
- e. Contract of delivery

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- a. Statement
- b. Job description

c. Collective agreement

- d. Contract of delivery
- e. Decree

1067. According to the requirements of the State Pharmacopoeia of Ukraine, thin-layer chromatography is a mandatory method of identification of herbal raw materials. What zones must be detected on a chromatographic plate during the analysis of *Digitalis purpurea* herbal raw material?

- a. Atropine and hyoscyamine

b. Purpurea glycosides A and B

- c. Convallatoxin
- d. K-Strophanthin
- e. Lanatosides A and B

1068. According to the requirements of the State Pharmacopoeia of Ukraine, thin-layer chromatography is a mandatory method of identification of herbal raw materials. What zones must be detected on a chromatographic plate during the analysis of *Digitalis purpurea* herbal raw material?

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- e. Atropine and hyoscyamine

1070. According to the rules in force, workrooms should regularly undergo humid disinfection. How often should the floors be washed?

- a. No less than once in a week

b. No less than once in a shift

- c. No less than twice in a week
- d. No less than thrice in a week
- e. No less than twice in a month

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- c. No less than twice in a month
- d. No less than once in a week

e. No less than twice in a week

1073. Accounting records are classified by the type of asset accounting or by their sources. Active accounts keep record of the following:

- a. Bank loans
- b. Debt settlement with the creditors

c. Monetary funds

- d. Salaries payment
- e. Equity capital

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- a. Salaries payment
- b. Debt settlement with the creditors
- c. Equity capital

d. Monetary funds

- e. Bank loans

1076. Accounts are classified based on the type of accounting of assets or the sources of their formation. What is accounted in passive accounts?

- a. Accounts receivable
- b. Monetary funds

c. Authorized capital

- d. Fixed assets
- e. Goods

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- b. Fixed assets
- c. Goods

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- e. Accounts receivable

1079. Accounts receivable develop in the process of pharmaceutical company work. Specify where in the balance book they are recorded:

a. Assets

- b. Liabilities
- c. Credit
- d. Debit
- e. Account

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- a. Liabilities
- b. Assets**
- c. Debit
- d. Credit
- e. Account

1082. Achillea grass is harvested during a certain stage of plant growth. Name this stage:

- a. Before the flowering
- b. During the shoot growth
- c. During the fruiting
- d. During the budding
- e. During mass flowering**

1083. Achillea grass is harvested during a certain stage of plant growth. Name this stage:

- a. During the fruiting
- b. During mass flowering**
- c. During the budding
- d. During the shoot growth
- e. Before the flowering

1084. Achillea grass is harvested during a certain stage of plant growth. Name this stage:

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- b. During mass flowering**
- c. During the shoot growth
- d. During the budding
- e. Before the flowering

1085. Acyclovir is a drug with the nucleoside structure, effective against herpes virus. What reaction of its transformation in the body is associated with its antiviral effect?

- a. Hydrolysis
- b. Hydroxylation
- c. Oxidation
- d. Phosphorylation**
- e. Reduction

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- c. Reduction
- d. Hydroxylation
- e. Hydrolysis

1088. Adhesive bandages have an effect on the skin, subcutaneous tissue, and in some cases on the entire body. What bandage is manufactured with the saponification reaction occurring in the process?

- a. Adhesive bandage
- b. Callus treatment bandage
- c. Pepper plaster bandage
- d. Simple lead bandage**
- e. Bactericidal adhesive bandage

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1091. Adonis-derived drugs are popular cardiotoxic agents. The stock of adonis herbal raw material is assessed by the method of:

a. Permanent quadrates

b. Projective cover

c. By eye

d. Geodesic

e. Model specimen

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1094. Adrenergic drug adrenaline tartrate contains phenolic hydroxyls in its structure. What solution should be used to conduct a reaction for their detection?

a. Iron (III) chloride solution

b. Magnesium sulfate solution

c. Copper (II) sulfate solution

d. Sodium nitrate solution

e. Potassium bromide solution

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1097. Advertising is the most popular and widely used part of marketing communications system. What cannot be included into the advertisements for medicines?

- a. Full pharmacological name of the medicine and the name of its manufacturer
- b. Objective information about the medicines, presented in such a way that the advertising nature of the message is obvious to the consumers

c. Claims that the effect of the medicines is guaranteed

- d. Recommendation to always read the instructions for the medicines
- e. General warnings about the usage of medicines and medical products

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1100. Aesculus hippocastanum seeds as a herbal raw material can be standardized by their quantitative content of aescin that belongs to the following group of bioactive substances:

- a. Coumarins
- b. Flavonoids
- c. Tannins
- d. Anthracene derivatives

e. Saponins

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1103. After a surgery, a man was receiving promedol (trimeperidine) for a long time. When this drug was discontinued, the patient developed psychic and somatic disturbances. What phenomenon is it?

a. Withdrawal syndrome

- b. Tachyphylaxis
- c. Steal syndrome
- d. Idiosyncrasy
- e. Rebound effect

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- c. Withdrawal syndrome**
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1106. After lifting a load, a man developed sharp lumbar pain that intensifies during movements and radiates into the left leg. The patient was diagnosed with lumbosacral radiculopathy. What drug can be recommended in this case?

- a. Atropine sulfate
- b. Drotaverine hydrochloride
- c. Enterosgel
- d. Diclofenac sodium**
- e. Cyanocobalamin

1107. After lifting a load, a man developed sharp lumbar pain that intensifies during movements and radiates into the left leg. The patient was diagnosed with lumbosacral radiculopathy. What drug can be recommended in this case?

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- b. Atropine sulfate
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- b. Atropine sulfate
- c. Drotaverine hydrochloride
- d. Diclofenac sodium**
- e. Enterosgel

1109. After mineralization of bromocamphor with zinc dust, bromide-ions can be detected in the filtrate in the presence of CHCl_3 by performing a reaction with:

- a. Chloramine**
- b. Chloral hydrate
- c. Acetyl chloride
- d. Sodium chloride
- e. Chloromethane

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- b. Chloral hydrate
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- b. Chloramine**
- c. Chloromethane

- d. Acetyl chloride
- e. Chloral hydrate

1112. After the start of a treatment, a tuberculosis patient has developed red coloration of urine, saliva, and lacrimal fluid. What drug could have caused such changes in this case?

a. Rifampicin

- b. Isoniazid
- c. Benzylpenicillin (Penicillin G) sodium salt
- d. Alcoholic iodine solution
- e. Ciprofloxacin

1113. After the start of a treatment, a tuberculosis patient has developed red coloration of urine, saliva, and lacrimal fluid. What drug could have caused such changes in this case?

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- b. Alcoholic iodine solution
- c. Benzylpenicillin (Penicillin G) sodium salt
- d. Isoniazid

e. Rifampicin

1115. Agar-agar is used as a detoxifying absorbent and the basis of a nutrient medium for growing microorganisms. What class of bioactive substances does it belong to?

a. Polysaccharides

- b. Coumarins
- c. Flavonoids
- d. Vitamins
- e. Iridoids

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- b. Vitamins
- c. Flavonoids

d. Polysaccharides

e. Coumarins

1118. Alkalimetry is used to determine the quantitative content of diphenhydramine hydrochloride antihistamine. What solution is used as a titrant in this analysis?

- a. Hydrochloric acid solution
- b. Potassium permanganate solution

c. Sodium hydroxide solution

- d. Sodium thiosulfate solution
- e. Potassium bromate solution

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- a. Potassium permanganate solution
- b. Potassium bromate solution

c. Sodium hydroxide solution

d. Sodium thiosulfate solution

e. Hydrochloric acid solution

1121. Alkaloids are used in medical practice for treatment of various diseases. Based on its chemical composition, the following substance can be classified as a quinolizidine alkaloid:

- a. Caffeine monohydrate
- b. Quinine sulfate
- c. Scopolamine hydrobromide

d. Pachycarpine hydroiodide

e. Codeine phosphate

1122. Alkaloids are used in medical practice for treatment of various diseases. Based on its chemical composition, the following substance can be classified as a quinolizidine alkaloid:

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e. Codeine phosphate

1124. All business transactions at a pharmacy must be documented. What type of cash operation must be recorded with a receipt cash order?

a. Salary payments

b. Revenue of the pharmacy

c. Advance salary payments

d. Transfer of the revenue to the bank account

e. Issuing cash sums to be accounted for

1125. All business transactions at a pharmacy must be documented. What type of cash operation must be recorded with a receipt cash order?

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b. Issuing cash sums to be accounted for

c. Revenue of the pharmacy

d. Advance salary payments

e. Transfer of the revenue to the bank account

1127. All the values, traditions, behavioral norms, and views that are characteristic of the employees of a pharmaceutical company together form its:

a. -

- b. Diversification
- c. Integration
- d. Etiquette

e. Culture

1128. All the values, traditions, behavioral norms, and views that are characteristic of the employees of a pharmaceutical company together form its:

- a. Diversification
- b. Etiquette
- c. Integration

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- a. Integration

b. Culture

- c. Etiquette
- d. Diversification
- e. -

1130. *Althaea officinalis* roots require special conditions for infusion. What special technique must be used for infusion of this herbal raw material?

- a. Immediate filtration
- b. The presence of ascorbic acid
- c. The presence of hydrochloric acid

d. Cold infusion

- e. The presence of sodium bicarbonate

1131. *Althaea officinalis* roots require special conditions for infusion. What special technique must be used for infusion of this herbal raw material?

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- b. Immediate filtration
- c. The presence of sodium bicarbonate

d. Cold infusion

- e. The presence of ascorbic acid

1132. *Althaea officinalis* roots require special conditions for infusion. What special technique must be used for infusion of this herbal raw material?

- a. The presence of sodium bicarbonate
- b. The presence of ascorbic acid
- c. The presence of hydrochloric acid
- d. Immediate filtration

e. Cold infusion

1133. Among various types of tablet external layers there are enterosoluble coatings. Where in the body are they dissolved?

- a. Esophagus
- b. Oral cavity
- c. Rectum

d. Intestine

- e. Stomach

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- a. Stomach
- b. Intestine**
- c. Rectum
- d. Oral cavity
- e. Esophagus

1136. Ampoule workshop of a factory produces 5% oil solution of tocopherol acetate for injections. What method of filling the ampoules is optimal in this case?

- a. Syringe and devaporation
- b. Syringe**
- c. Syringe and vacuum
- d. Devaporation
- e. Vacuum

1137. Ampoule workshop of a factory produces 5% oil solution of tocopherol acetate for injections. What method of filling the ampoules is optimal in this case?

- a. Vacuum
- b. Syringe and devaporation
- c. Syringe and vacuum
- d. Devaporation

e. Syringe

1138. An 18-year-old girl was hospitalized with complaints of polyuria, dry skin, loss of weight, and general weakness. She was diagnosed with diabetes mellitus type I, first diagnosed. What drug should be taken first in the course of the therapy?

- a. Glibenclamid
- b. Exenatide

c. Insulin

- d. Arphasetin
- e. Metformin

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- b. Exenatide
- c. Arphasetin
- d. Glibenclamid

e. Insulin

1141. An accountable person has received a sum of money from the pharmacy cash desk to buy a calculator. What document records the cash flow in such a transaction?

a. Cash expense order

- b. Invoice
- c. Remains unregistered documentarily
- d. Cash income order
- e. Receipt

1142. An accountable person has received a sum of money from the pharmacy cash desk to buy a calculator. What document records the cash flow in such a transaction?

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- c. Cash income order

d. Receipt

e. Remains unregistered documentarily

1143. An accountable person has received a sum of money from the pharmacy cash desk to buy a calculator. What document records the cash flow in such a transaction?

a. Receipt

b. Cash expense order

c. Invoice

d. Cash income order

e. Remains unregistered documentarily

1144. An accountant conducts necessary calculations for remuneration of labor. Name the type of remuneration that is due for labor carried out according to the work standards and is paid within the amount determined by basic or piece wages for factory workers and salaries for office workers:

a. Increment

b. Basic pay

c. One-off payment

d. Bonus

e. Financial aid

1145. An accountant conducts necessary calculations for remuneration of labor. Name the type of remuneration that is due for labor carried out according to the work standards and is paid within the amount determined by basic or piece wages for factory workers and salaries for office workers:

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a. One-off payment

b. Bonus

c. Increment

d. Financial aid

e. Basic pay

1147. An alkaloid drug has the chemical name of 1,3,7-Trimethyl-3,7-dihydro-1H-purine-2,6-dione. Name this substance:

a. Norfloxacin

b. Ampicillin

c. Phenazone

d. Caffeine

e. Chloramphenicol

1148. An alkaloid drug has the chemical name of 1,3,7-Trimethyl-3,7-dihydro-1H-purine-2,6-dione. Name this substance:

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c. Caffeine

d. Chloramphenicol

e. Norfloxacin

1150. An analyst of a chemical laboratory had received a glucose substance for analysis. To check its

quality he used a polarimeter. The analyst measured:

- a. Melting point
- b. Specific gravity
- c. Optical density
- d. Refractive index

e. Angle of rotation

1151. An analyst of a chemical laboratory had received a glucose substance for analysis. To check its quality he used a polarimeter. The analyst measured:

- a. Refractive index
- b. Optical density
- c. Melting point

d. Angle of rotation

e. Specific gravity

1152. An analyst of a chemical laboratory had received a glucose substance for analysis. To check its quality he used a polarimeter. The analyst measured:

a. Specific gravity

b. Angle of rotation

- c. Refractive index
- d. Melting point
- e. Optical density

1153. An analytical chemist analyses the substance of racemic menthol according to the State Pharmacopoeia of Ukraine. To identify the drug and determine its purity he uses optical rotation that should occur within the interval:

a. From $+10^{\circ}$ to $+13^{\circ}$

b. From $+0,2^{\circ}$ to $-0,2^{\circ}$

- c. From $+50^{\circ}$ to $+56^{\circ}$
- d. From -102° to -105°
- e. From -48° to -51°

1154. An analytical chemist analyses the substance of racemic menthol according to the State Pharmacopoeia of Ukraine. To identify the drug and determine its purity he uses optical rotation that should occur within the interval:

a. From -102° to -105°

b. From $+10^{\circ}$ to $+13^{\circ}$

c. From $+0,2^{\circ}$ to $-0,2^{\circ}$

- d. From -48° to -51°
- e. From $+50^{\circ}$ to $+56^{\circ}$

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a. From -102° to -105°

b. From $+10^{\circ}$ to $+13^{\circ}$

c. From -48° to -51°

d. From $+50^{\circ}$ to $+56^{\circ}$

e. From $+0,2^{\circ}$ to $-0,2^{\circ}$

1156. An analytical chemist can quantitatively determine the thiamine bromide content in powders by means of:

a. Alkalimetry

- b. Bromometry
- c. Complexometric titration
- d. Permanganatometry
- e. Nitritometric titration

1157. An analytical chemist can quantitatively determine the thiamine bromide content in powders by means of:

a. Nitritometric titration

b. Alkalimetry

- c. Permanganatometry
- d. Bromometry
- e. Complexometric titration

1158. An analytical chemist can quantitatively determine the thiamine bromide content in powders by means of:

a. Nitritometric titration

b. Alkalimetry

- c. Permanganatometry
- d. Complexometric titration
- e. Bromometry

1159. An analytical chemist conducts a thiochrome formation reaction to identify thiamine bromide. What reagent should be used in this case?

a. Iron(II) sulfate

b. Potassium ferrocyanide

- c. Sodium hydroxide
- d. Calcium chloride
- e. Potassium bromide

1160. An analytical chemist conducts a thiochrome formation reaction to identify thiamine bromide. What reagent should be used in this case?

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a. Sodium hydroxide

b. Calcium chloride

c. Iron(II) sulfate

d. Potassium ferrocyanide

e. Potassium bromide

1162. An analytical chemist conducts quantitative determination of ibuprofen (substance) by means of direct alkalimetry. The following solution will be an indicator in this case:

a. Phenolphthalein

b. Tropeolin 00

c. Mordant black

d. Ammonium iron (III) sulfate

e. Potassium chromate

1163. An analytical chemist conducts quantitative determination of ibuprofen (substance) by means of direct alkalimetry. The following solution will be an indicator in this case:

a. Ammonium iron (III) sulfate

b. Mordant black

c. Potassium chromate

d. Phenolphthalein

e. Tropeolin 00

1164. An analytical chemist conducts quantitative determination of ibuprofen (substance) by means of direct alkalimetry. The following solution will be an indicator in this case:

a. Tropeolin 00

b. Mordant black

c. Phenolphthalein

d. Potassium chromate

e. Ammonium iron (III) sulfate

1165. An analytical chemist determines potassium ions admixture in a medicinal substance with sodium tetraphenylborate according to the State Pharmacopoeia of Ukraine. What analytical effect would confirm the presence of this admixture?

a. White opalescence

- b. Pink coloring
- c. Yellow coloring
- d. Brown coloring
- e. Blue coloring

1166. An analytical chemist determines potassium ions admixture in a medicinal substance with sodium tetraphenylborate according to the State Pharmacopoeia of Ukraine. What analytical effect would confirm the presence of this admixture?

- a. Brown coloring

b. White opalescence

- c. Pink coloring
- d. Yellow coloring
- e. Blue coloring

1167. An analytical chemist determines potassium ions admixture in a medicinal substance with sodium tetraphenylborate according to the State Pharmacopoeia of Ukraine. What analytical effect would confirm the presence of this admixture?

- a. Yellow coloring
- b. Blue coloring
- c. Pink coloring
- d. Brown coloring

e. White opalescence

1168. An analytical chemist during the identification of phenylephrine hydrochloride (mesaton) performed a reaction with a solution of iron(III) chloride, which resulted in a purple coloring. The presence of what functional group in the structure of the drug was confirmed as a result?

a. Phenolic hydroxyl

- b. Aliphatic amino group
- c. Primary aromatic amino group
- d. Ester group
- e. Carboxyl group

1169. An analytical chemist during the identification of phenylephrine hydrochloride (mesaton) performed a reaction with a solution of iron(III) chloride, which resulted in a purple coloring. The presence of what functional group in the structure of the drug was confirmed as a result?

- a. Aliphatic amino group
- b. Carboxyl group
- c. Ester group
- d. Primary aromatic amino group

e. Phenolic hydroxyl

1170. An analytical chemist during the identification of phenylephrine hydrochloride (mesaton) performed a reaction with a solution of iron(III) chloride, which resulted in a purple coloring. The presence of what functional group in the structure of the drug was confirmed as a result?

- a. Primary aromatic amino group
- b. Carboxyl group
- c. Aliphatic amino group
- d. Ester group

e. Phenolic hydroxyl

1171. An analytical chemist has conducted a qualitative reaction to confirm the presence of a steroid ring in the prednisolone molecule. For this purpose the following reagent was used:

a. Concentrated sulfuric acid

- b. Acetic anhydride
- c. Copper tartrate reagent
- d. Phenylhydrazine sulfate
- e. Hydroxylamine hydrochloride

1172. An analytical chemist has conducted a qualitative reaction to confirm the presence of a steroid ring in the prednisolone molecule. For this purpose the following reagent was used:

- a. Acetic anhydride

b. Concentrated sulfuric acid

- c. Phenylhydrazine sulfate
- d. Copper tartrate reagent
- e. Hydroxylamine hydrochloride

1173. An analytical chemist has conducted a qualitative reaction to confirm the presence of a steroid ring in the prednisolone molecule. For this purpose the following reagent was used:

- a. Hydroxylamine hydrochloride

b. Concentrated sulfuric acid

- c. Acetic anhydride
- d. Phenylhydrazine sulfate
- e. Copper tartrate reagent

1174. An analytical chemist identifies diphenhydramine hydrochloride (Dimedrol). What reagent produces a bright yellow coloring when reacting with this substance?

a. Concentrated sulfuric acid

- b. Perchloric acid 0.1 M
- c. Anhydrous acetic acid
- d. Diluted phosphoric acid
- e. Diluted hydrochloric acid

1175. An analytical chemist identifies diphenhydramine hydrochloride (Dimedrol). What reagent produces a bright yellow coloring when reacting with this substance?

a. Concentrated sulfuric acid

- b. Perchloric acid 0.1 M
- c. Diluted hydrochloric acid
- d. Anhydrous acetic acid
- e. Diluted phosphoric acid

1176. An analytical chemist identifies diphenhydramine hydrochloride (Dimedrol). What reagent produces a bright yellow coloring when reacting with this substance?

- a. Anhydrous acetic acid
- b. Diluted hydrochloric acid
- c. Diluted phosphoric acid
- d. Perchloric acid 0.1 M

e. Concentrated sulfuric acid

1177. An analytical chemist investigates a 3% hydrogen solution. What reagent is recommended by the State Pharmacopoeia of Ukraine for identification of this substance?

- a. Magnesium sulfate
- b. Sodium chloride
- c. Zinc oxide

d. Potassium chromate

- e. Calcium chloride

1178. An analytical chemist investigates a 3% hydrogen solution. What reagent is recommended by the State Pharmacopoeia of Ukraine for identification of this substance?

- a. Sodium chloride
- b. Magnesium sulfate
- c. Calcium chloride
- d. Zinc oxide

e. Potassium chromate

1179. An analytical chemist investigates a 3% hydrogen solution. What reagent is recommended by the State Pharmacopoeia of Ukraine for identification of this substance?

- a. Zinc oxide

b. Potassium chromate

- c. Magnesium sulfate
- d. Calcium chloride
- e. Sodium chloride

1180. An analytical chemist performs collargol identification by means of ashing. Obtained residue is then dissolved in hydrochloric acid. Specify the analytical effect that is observed in this case:

a. White precipitate

- b. Yellow precipitate
- c. Light green precipitate
- d. Black precipitate
- e. Blue precipitate

1181. An analytical chemist performs collargol identification by means of ashing. Obtained residue is then dissolved in hydrochloric acid. Specify the analytical effect that is observed in this case:

a. Black precipitate

b. White precipitate

- c. Blue precipitate
- d. Light green precipitate
- e. Yellow precipitate

1182. An analytical chemist performs collargol identification by means of ashing. Obtained residue is then dissolved in hydrochloric acid. Specify the analytical effect that is observed in this case:

a. Light green precipitate

b. White precipitate

- c. Blue precipitate
- d. Black precipitate
- e. Yellow precipitate

1183. An analytical chemist performs quantitative analysis of isoniazid by means of direct bromatometry with volumetric solutions of potassium bromate, potassium bromide, hydrochloric acid and methyl red as an indicator. This method is based on the following reaction:

a. Bromination of the pyridine ring

b. Oxidation of the hydrazine group with bromine

- c. Oxidation of the hydrazine residue with potassium bromide
- d. Opening of the pyridine ring
- e. Reduction of the hydrazine residue with bromine

1184. An analytical chemist performs quantitative analysis of isoniazid by means of direct bromatometry with volumetric solutions of potassium bromate, potassium bromide, hydrochloric acid and methyl red as an indicator. This method is based on the following reaction:

a. Bromination of the pyridine ring

b. Opening of the pyridine ring

- c. Oxidation of the hydrazine residue with potassium bromide
- d. Reduction of the hydrazine residue with bromine

e. Oxidation of the hydrazine group with bromine

1185. An analytical chemist performs quantitative analysis of isoniazid by means of direct bromatometry with volumetric solutions of potassium bromate, potassium bromide, hydrochloric acid and methyl red as an indicator. This method is based on the following reaction:

a. Opening of the pyridine ring

b. Oxidation of the hydrazine residue with potassium bromide

c. Oxidation of the hydrazine group with bromine

- d. Bromination of the pyridine ring
- e. Reduction of the hydrazine residue with bromine

1186. An analytical chemist performs the identification of ascorbic acid in an injection solution according to the State Pharmacopoeia of Ukraine. Its interaction with a certain solution produces a gray precipitate. Name this solution:

a. Silver nitrate

- b. Calcium chloride
- c. Ammonium hydroxide
- d. Sodium carbonate
- e. Sodium nitrite

1187. An analytical chemist performs the identification of ascorbic acid in an injection solution according to the State Pharmacopoeia of Ukraine. Its interaction with a certain solution produces a gray precipitate. Name this solution:

a. Silver nitrate

- b. Sodium carbonate
- c. Calcium chloride
- d. Ammonium hydroxide
- e. Sodium nitrite

1188. An analytical chemist performs the identification of ascorbic acid in an injection solution according to the State Pharmacopoeia of Ukraine. Its interaction with a certain solution produces a gray precipitate. Name this solution:

- a. Sodium nitrite
- b. Sodium carbonate

c. Silver nitrate

- d. Calcium chloride
- e. Ammonium hydroxide

1189. An analytical chemist performs the qualitative assessment of mercury (II) chloride. What method is recommended by the State Pharmacopoeia of Ukraine for quantitative assessment in this case?

a. Complexometric titration

- b. Nitritometric titration
- c. Acidimetry
- d. Bromometry
- e. Alkalimetry

1190. An analytical chemist performs the qualitative assessment of mercury (II) chloride. What method is recommended by the State Pharmacopoeia of Ukraine for quantitative assessment in this case?

- a. Acidimetry
- b. Nitritometric titration
- c. Bromometry

d. Complexometric titration

- e. Alkalimetry

1191. An analytical chemist performs the qualitative assessment of mercury (II) chloride. What method is recommended by the State Pharmacopoeia of Ukraine for quantitative assessment in this case?

- a. Nitritometric titration
- b. Bromometry
- c. Alkalimetry
- d. Acidimetry

e. Complexometric titration

1192. An analytical chemist should use the following solution to identify sodium-containing substances:

a. Potassium pyroantimonate

- b. Potassium permanganate
- c. Sodium citrate
- d. Barium hydroxide
- e. Potassium carbonate

1193. An analytical chemist should use the following solution to identify sodium-containing substances:

- a. Barium hydroxide

b. Potassium pyroantimonate

- c. Potassium carbonate
- d. Potassium permanganate
- e. Sodium citrate

1194. An analytical chemist should use the following solution to identify sodium-containing substances:

- a. Potassium permanganate

b. Potassium pyroantimonate

- c. Potassium carbonate

- d. Sodium citrate
- e. Barium hydroxide

1195. An analytical chemist studies an iodine substance. What volumetric solution is recommended by the State Pharmacopoeia of Ukraine for its quantitative determination?

a. Sodium thiosulfate

- b. Sodium edetate
- c. Potassium bromate
- d. Sodium hydroxide
- e. Hydrochloric acid

1196. An analytical chemist studies an iodine substance. What volumetric solution is recommended by the State Pharmacopoeia of Ukraine for its quantitative determination?

a. Potassium bromate

b. Sodium thiosulfate

- c. Hydrochloric acid
- d. Sodium hydroxide
- e. Sodium edetate

1197. An analytical chemist studies an iodine substance. What volumetric solution is recommended by the State Pharmacopoeia of Ukraine for its quantitative determination?

- a. Sodium hydroxide
- b. Hydrochloric acid
- c. Sodium edetate

d. Sodium thiosulfate

e. Potassium bromate

1198. An analytical chemist uses nitritometry for quantitative determination of procainamide hydrochloride. What indicator is used in this case to determine the titration endpoint?

a. Tropeolin 00

- b. Methyl orange
- c. Xylenol orange
- d. Methyl red
- e. Phenolphthalein

1199. An analytical chemist uses nitritometry for quantitative determination of procainamide hydrochloride. What indicator is used in this case to determine the titration endpoint?

- a. Phenolphthalein
- b. Methyl orange
- c. Xylenol orange

d. Tropeolin 00

e. Methyl red

1200. An analytical chemist uses nitritometry for quantitative determination of procainamide hydrochloride. What indicator is used in this case to determine the titration endpoint?

- a. Xylenol orange
- b. Methyl orange
- c. Phenolphthalein
- d. Methyl red

e. Tropeolin 00

1201. An analytical laboratory has received a procaine hydrochloride substance for analysis. According to the State Pharmacopoeia of Ukraine limit content of heavy metals should be determined with the following reagent:

a. Thioacetamide

- b. Sulfomolybdenum
- c. Aminomethyl alizarin acetic acid
- d. Methoxyphenylacetic acid
- e. Hypophosphite

1202. An analytical laboratory has received a procaine hydrochloride substance for analysis. According to the State Pharmacopoeia of Ukraine limit content of heavy metals should be determined with the following reagent:

a. Thioacetamide

- b. Sulfomolybdenum
- c. Hypophosphite
- d. Methoxyphenylacetic acid
- e. Aminomethyl alizarin acetic acid

1203. An analytical laboratory has received a procaine hydrochloride substance for analysis. According to the State Pharmacopoeia of Ukraine limit content of heavy metals should be determined with the following reagent:

- a. Methoxyphenylacetic acid
- b. Sulfomolybdenum
- c. Hypophosphite
- d. Aminomethyl alizarin acetic acid

e. Thioacetamide

1204. An analytical pharmacist analyzes a cefazolin sodium substance. What solution is used for identification of sodium ions?

- a. Ammonium oxalate solution
- b. Magnesium sulfate solution
- c. Barium chloride solution

d. Potassium pyroantimonate solution

- e. Sodium nitrite solution

1205. An analytical pharmacist analyzes a cefazolin sodium substance. What solution is used for identification of sodium ions?

- a. Magnesium sulfate solution
- b. Sodium nitrite solution
- c. Barium chloride solution
- d. Ammonium oxalate solution

e. Potassium pyroantimonate solution

1206. An analytical pharmacist analyzes a cefazolin sodium substance. What solution is used for identification of sodium ions?

- a. Sodium nitrite solution

b. Potassium pyroantimonate solution

- c. Barium chloride solution
- d. Ammonium oxalate solution
- e. Magnesium sulfate solution

1207. An analytical pharmacist analyzes a chloramphenicol (levomycetin) substance and uses the specific absorption parameter value to calculate its quantitative content. What method was used for quantification in this case?

- a. Polarimetry

b. Spectrophotometry

- c. Polarography
- d. Refractometry
- e. Photocolorimetry

1208. An analytical pharmacist analyzes a chloramphenicol (levomycetin) substance and uses the specific absorption parameter value to calculate its quantitative content. What method was used for quantification in this case?

- a. Polarography

b. Spectrophotometry

- c. Photocolorimetry
- d. Polarimetry
- e. Refractometry

1209. An analytical pharmacist analyzes a chloramphenicol (levomycetin) substance and uses the specific absorption parameter value to calculate its quantitative content. What method was used for quantification in this case?

- a. Refractometry

b. Spectrophotometry

- c. Photocolorimetry
- d. Polarography
- e. Polarimetry

1210. An analytical pharmacist analyzes the antianginal agent glyceryl trinitrate (nitroglycerin). What solution would the pharmacist use to identify the nitrate ions that form after hydrolysis?

a. Diphenylamine solution

- b. Glyoxal-hydroxyanil solution
- c. Lanthanum(III) nitrate solution
- d. Thiourea solution
- e. Chloramine solution

1211. An analytical pharmacist analyzes the antianginal agent glyceryl trinitrate (nitroglycerin). What solution would the pharmacist use to identify the nitrate ions that form after hydrolysis?

- a. Chloramine solution
- b. Lanthanum(III) nitrate solution
- c. Glyoxal-hydroxyanil solution
- d. Thiourea solution

e. Diphenylamine solution

1212. An analytical pharmacist analyzes the antianginal agent glyceryl trinitrate (nitroglycerin). What solution would the pharmacist use to identify the nitrate ions that form after hydrolysis?

a. Thiourea solution

b. Diphenylamine solution

- c. Glyoxal-hydroxyanil solution
- d. Lanthanum(III) nitrate solution
- e. Chloramine solution

1213. An analytical pharmacist conducts a quantitative analysis of sodium benzoate and uses a hydrochloric acid solution as a titrant. What method of quantification is being used in this case?

a. Acidimetry

- b. Complexometry
- c. Iodometry
- d. Bromatometry
- e. Nitritometry

1214. An analytical pharmacist conducts a quantitative analysis of sodium benzoate and uses a hydrochloric acid solution as a titrant. What method of quantification is being used in this case?

a. Bromatometry

b. Acidimetry

- c. Complexometry
- d. Nitritometry
- e. Iodometry

1215. An analytical pharmacist conducts a quantitative analysis of sodium benzoate and uses a hydrochloric acid solution as a titrant. What method of quantification is being used in this case?

- a. Complexometry
- b. Bromatometry

c. Acidimetry

- d. Iodometry
- e. Nitritometry

1216. An analytical pharmacist detects a primary aromatic amino group in the structure of benzocaine (anesthesine). What compound would the pharmacist use for identification?

- a. Indophenol
- b. Murexide
- c. Fluorescein

d. Azo dye

e. Iodoform

1217. An analytical pharmacist is testing a thiamine hydrobromide substance. What solution would the pharmacist use to determine sulfate impurities?

a. Ammonium oxalate solution

b. Barium chloride solution

- c. Sodium benzoate solution
- d. Sodium nitrite solution
- e. Calcium chloride solution

1218. An analytical pharmacist is testing a thiamine hydrobromide substance. What solution would the pharmacist use to determine sulfate impurities?

- a. Sodium benzoate solution

b. Barium chloride solution

- c. Ammonium oxalate solution
- d. Sodium nitrite solution
- e. Calcium chloride solution

1219. An analytical pharmacist is testing a thiamine hydrobromide substance. What solution would the pharmacist use to determine sulfate impurities?

- a. Sodium benzoate solution
- b. Sodium nitrite solution
- c. Calcium chloride solution

d. Barium chloride solution

- e. Ammonium oxalate solution

1220. An analytical pharmacist of the quality control department analyzes the phenol substance. What method of quantification is used for this purpose?

a. Bromatometry

- b. Argentometry
- c. Permanganatometry
- d. Mercurimetry
- e. Complexonometry

1221. An analytical pharmacist of the quality control department analyzes the phenol substance. What method of quantification is used for this purpose?

- a. Mercurimetry
- b. Argentometry
- c. Permanganatometry
- d. Complexonometry

e. Bromatometry

1222. An analytical pharmacist of the quality control department analyzes the phenol substance. What method of quantification is used for this purpose?

- a. Permanganatometry
- b. Mercurimetry

c. Bromatometry

- d. Complexonometry
- e. Argentometry

1223. An analytical pharmacist performs the express analysis of anti-inflammatory eye drops containing potassium iodide. What method is used for quantification of the active substance?

- a. Acidimetry

b. Argentometry

- c. Alkalimetry
- d. Nitritometry
- e. Complexonometry

1224. An analytical pharmacist performs the express analysis of anti-inflammatory eye drops containing potassium iodide. What method is used for quantification of the active substance?

- a. Alkalimetry
- b. Nitritometry

c. Argentometry

- d. Complexonometry
- e. Acidimetry

1225. An analytical pharmacist performs the express analysis of anti-inflammatory eye drops containing potassium iodide. What method is used for quantification of the active substance?

- a. Nitritometry
- b. Alkalimetry
- c. Complexonometry
- d. Acidimetry

e. Argentometry

1226. An analytical pharmacist quantifies the ascorbic acid substance using the iodometric method. What indicator must be used in the process?

a. Methyl orange

b. Starch

- c. Murexide
- d. Bromophenol blue
- e. Phenolphthalein

1227. An analytical pharmacist quantifies the ascorbic acid substance using the iodometric method. What indicator must be used in the process?

- a. Methyl orange
- b. Phenolphthalein
- c. Bromophenol blue
- d. Murexide

e. Starch

1228. An analytical pharmacist quantifies the ascorbic acid substance using the iodometric method. What indicator must be used in the process?

- a. Murexide
- b. Bromophenol blue
- c. Methyl orange
- d. Phenolphthalein

e. Starch

1229. An analytical pharmacist uses a reaction with a sodium hydroxide solution during boiling to identify a nicotinamide substance. What gaseous product is released as a result of this reaction?

a. Ammonia

- b. Carbon(IV) oxide
- c. Hydrogen sulfide
- d. Sulfur(VI) oxide
- e. Formaldehyde

1230. An analytical pharmacist uses a reaction with a sodium hydroxide solution during boiling to identify a nicotinamide substance. What gaseous product is released as a result of this reaction?

- a. Formaldehyde
- b. Carbon(IV) oxide
- c. Hydrogen sulfide

d. Ammonia

e. Sulfur(VI) oxide

1231. An analytical pharmacist uses a reaction with a sodium hydroxide solution during boiling to identify a nicotinamide substance. What gaseous product is released as a result of this reaction?

- a. Sulfur(VI) oxide
- b. Carbon(IV) oxide

c. Ammonia

- d. Formaldehyde
- e. Hydrogen sulfide

1232. An analytical pharmacist uses cerimetry for quantification of nifedipine. What indicator is used in this method?

a. Ferroin

- b. Potassium chromate
- c. Tropeolin 00
- d. Phenolphthalein
- e. Methyl orange

1233. An analytical pharmacist uses cerimetry for quantification of nifedipine. What indicator is used

in this method?

- a. Methyl orange
- b. Potassium chromate

c. Ferroin

- d. Tropeolin 00
- e. Phenolphthalein

1234. An analytical pharmacist uses cerimetry for quantification of nifedipine. What indicator is used in this method?

- a. Potassium chromate
- b. Methyl orange
- c. Tropeolin 00

d. Ferroin

- e. Phenolphthalein

1235. An analytical quality control laboratory analyzes a resorcinol substance. What method is used for its quantitative determination?

a. Bromometry

- b. Nitritometry
- c. Argentometry
- d. Complexometric titration
- e. Mercurimetry

1236. An analytical quality control laboratory analyzes a resorcinol substance. What method is used for its quantitative determination?

- a. Argentometry
- b. Nitritometry
- c. Mercurimetry

d. Bromometry

- e. Complexometric titration

1237. An analytical quality control laboratory analyzes a resorcinol substance. What method is used for its quantitative determination?

- a. Complexometric titration

b. Bromometry

- c. Argentometry
- d. Mercurimetry
- e. Nitritometry

1238. An analytical quality control laboratory performs analysis of an ascorbic acid substance. What device must be used to determine its specific optical rotation?

a. Polarimeter

- b. Refractometer
- c. Viscometer
- d. Spectrophotometer
- e. Hydrometer

1239. An analytical quality control laboratory performs analysis of an ascorbic acid substance. What device must be used to determine its specific optical rotation?

- a. Hydrometer
- b. Spectrophotometer

c. Polarimeter

- d. Viscometer
- e. Refractometer

1240. An analytical quality control laboratory performs analysis of an ascorbic acid substance. What device must be used to determine its specific optical rotation?

- a. Spectrophotometer
- b. Refractometer
- c. Viscometer
- d. Hydrometer
- e. Polarimeter**

1241. An employee of an analytical and quality control laboratory performs a rapid analysis of morphine hydrochloride. In this case, the presence of phenolic hydroxyl can be confirmed by a reaction with a solution of:

- a. AgNO₃
- b. NH₃
- c. FeCl₃**
- d. Concentrated HNO₃
- e. K₃[Fe(CN)₆]

1242. An employee of an analytical and quality control laboratory performs a rapid analysis of morphine hydrochloride. In this case, the presence of phenolic hydroxyl can be confirmed by a reaction with a solution of:

- a. Concentrated HNO₃
- b. K₃[Fe(CN)₆]
- c. NH₃
- d. AgNO₃
- e. FeCl₃**

1243. An employee of an analytical and quality control laboratory performs a rapid analysis of morphine hydrochloride. In this case, the presence of phenolic hydroxyl can be confirmed by a reaction with a solution of:

- a. K₃[Fe(CN)₆]
- b. NH₃
- c. Concentrated HNO₃
- d. FeCl₃**
- e. AgNO₃

1244. An expert from an analytical quality control laboratory performs the quantitative determination of chlorpromazine in the tablets, according to the State Pharmacopoeia of Ukraine. The expert uses the method of ultraviolet spectrophotometry and measures the following with the spectrophotometer:

- a. Optical density**
- b. Solution pH
- c. Viscosity
- d. Angle of rotation
- e. Refractive index

1245. An expert from an analytical quality control laboratory performs the quantitative determination of chlorpromazine in the tablets, according to the State Pharmacopoeia of Ukraine. The expert uses the method of ultraviolet spectrophotometry and measures the following with the spectrophotometer:

- a. Angle of rotation
- b. Refractive index
- c. Solution pH
- d. Optical density**
- e. Viscosity

1246. An expert from an analytical quality control laboratory performs the quantitative determination of chlorpromazine in the tablets, according to the State Pharmacopoeia of Ukraine. The expert uses the method of ultraviolet spectrophotometry and measures the following with the spectrophotometer:

- a. Refractive index
- b. Solution pH
- c. Optical density**
- d. Angle of rotation
- e. Viscosity

1247. An important indicator of business activity is profitability of a business. Specify the indicators that can be used to measure the profitability:

- a. Profit/turnover**
- b. Liquidity/solvency
- c. Turnover/production cost
- d. Income/turnover
- e. Turnover/income

1248. An important indicator of business activity is profitability of a business. Specify the indicators that can be used to measure the profitability:

a. Profit/turnover

b. Turnover/income

c. Turnover/production cost

d. Income/turnover

e. Liquidity/solvency

1249. An important indicator of business activity is profitability of a business. Specify the indicators that can be used to measure the profitability:

a. Liquidity/solvency

b. Turnover/income

c. Turnover/production cost

d. Profit/turnover

e. Income/turnover

1250. An infusion and a liquid extract used as cardiotonics are obtained from *Crataegus oxyacantha* flowers and fruits. What active substance that is a component of this herbal raw material can be determined using spectrophotometry?

a. Atropine

b. Cytisine

c. Lipids

d. Papaverine

e. Flavonoids

1251. An infusion and a liquid extract used as cardiotonics are obtained from *Crataegus oxyacantha* flowers and fruits. What active substance that is a component of this herbal raw material can be determined using spectrophotometry?

a. Lipids

b. Papaverine

c. Flavonoids

d. Atropine

e. Cytisine

1252. An infusion and a liquid extract used as cardiotonics are obtained from *Crataegus oxyacantha* flowers and fruits. What active substance that is a component of this herbal raw material can be determined using spectrophotometry?

a. Papaverine

b. Lipids

c. Atropine

d. Flavonoids

e. Cytisine

1253. Analysis of sales volume of a certain drug shows that the drug is being manufactured in large batches and sales volume grows. However, the growth rate gradually slows down and the number of competitors increases. What stage of product life cycle is it?

a. Decline

b. Growth

c. Development

d. Introduction

e. Maturity

1254. Analysis of sales volume of a certain drug shows that the drug is being manufactured in large batches and sales volume grows. However, the growth rate gradually slows down and the number of competitors increases. What stage of product life cycle is it?

a. Decline

b. Introduction

c. Maturity

d. Development

e. Growth

1255. Analysis of sales volume of a certain drug shows that the drug is being manufactured in large

batches and sales volume grows. However, the growth rate gradually slows down and the number of competitors increases. What stage of product life cycle is it?

- a. Growth
- b. Development
- c. Maturity**
- d. Introduction
- e. Decline

1256. Analysis of work environment of a pharmaceutical company has detected there the following organizational features: dynamism, flexibility of management structure, self-checking, and democratic communication. What type of adaptive organization structure is it?

- a. Organic**
- b. Informal
- c. Combined
- d. -
- e. Mechanistic

1257. Analysis of work environment of a pharmaceutical company has detected there the following organizational features: dynamism, flexibility of management structure, self-checking, and democratic communication. What type of adaptive organization structure is it?

- a. Combined
- b. -
- c. Organic**
- d. Informal
- e. Mechanistic

1258. Analysis of work environment of a pharmaceutical company has detected there the following organizational features: dynamism, flexibility of management structure, self-checking, and democratic communication. What type of adaptive organization structure is it?

- a. Informal
- b. Combined
- c. Mechanistic
- d. -

e. Organic

1259. Anthocyanidins are euflavonoid compounds that color plant tissues in shades that vary from pink to black-purple. What characteristic feature of anthocyanidins is used in their analysis?

- a. Alcohol precipitation
- b. Ability to change color depending on the pH of the medium**
- c. Solubility in fats
- d. Ability to sublime
- e. Amorphous state

1260. Anthocyanidins are euflavonoid compounds that color plant tissues in shades that vary from pink to black-purple. What characteristic feature of anthocyanidins is used in their analysis?

- a. Amorphous state
- b. Ability to change color depending on the pH of the medium**
- c. Alcohol precipitation
- d. Ability to sublime
- e. Solubility in fats

1261. Anthocyanidins are euflavonoid compounds that color plant tissues in shades that vary from pink to black-purple. What characteristic feature of anthocyanidins is used in their analysis?

- a. Solubility in fats
- b. Alcohol precipitation
- c. Ability to change color depending on the pH of the medium**
- d. Ability to sublime
- e. Amorphous state

1262. Aqueous lanolin consists of:

- a. 5 parts of anhydrous lanolin and 95 parts of water
- b. 80 parts of anhydrous lanolin and 20 parts of water

c. 70 parts of anhydrous lanolin and 30 parts of water

d. 90 parts of anhydrous lanolin and 10 parts of water

e. 50 parts of anhydrous lanolin and 50 parts of water

1263. Aqueous lanolin consists of:

a. 50 parts of anhydrous lanolin and 50 parts of water

b. 80 parts of anhydrous lanolin and 20 parts of water

c. 90 parts of anhydrous lanolin and 10 parts of water

d. 70 parts of anhydrous lanolin and 30 parts of water

e. 5 parts of anhydrous lanolin and 95 parts of water

1264. Aqueous lanolin consists of:

a. 80 parts of anhydrous lanolin and 20 parts of water

b. 5 parts of anhydrous lanolin and 95 parts of water

c. 50 parts of anhydrous lanolin and 50 parts of water

d. 90 parts of anhydrous lanolin and 10 parts of water

e. 70 parts of anhydrous lanolin and 30 parts of water

1265. Arctostaphylos leaves have uroseptic effect. The following is an allowable admixture to this herbal raw material:

a. Folia Vitis idaeae

b. Folia Cotini coggygriae

c. Folia Urticae

d. Herba Bursae pastoris

e. Folia Digitalis lanata

1266. Arctostaphylos leaves have uroseptic effect. The following is an allowable admixture to this herbal raw material:

a. Folia Digitalis lanata

b. Herba Bursae pastoris

c. Folia Cotini coggygriae

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1267. Arctostaphylos leaves have uroseptic effect. The following is an allowable admixture to this herbal raw material:

a. Folia Urticae

b. Folia Cotini coggygriae

c. Folia Vitis idaeae

d. Folia Digitalis lanata

e. Herba Bursae pastoris

1268. As a result of heparin overdose, a patient developed bleeding. What medicine must be used as an antidote in this case?

a. Naloxone

b. Protamine sulfate

c. Thiosulfate

d. Unithiol (Dimercaptopropansulfonate sodium)

e. Methionine

1269. As a result of heparin overdose, a patient developed bleeding. What medicine must be used as an antidote in this case?

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b. Unithiol (Dimercaptopropansulfonate sodium)

c. Methionine

d. Protamine sulfate

e. Thiosulfate

1270. As a result of heparin overdose, a patient developed bleeding. What medicine must be used as an antidote in this case?

a. Thiosulfate

b. Protamine sulfate

c. Methionine

- d. Naloxone
- e. Unithiol (Dimercaptopropansulfonate sodium)

1271. As the result of reduction of alcoholic solutions of 5-nitrofur derivatives by means of their reaction with zinc in the presence of diluted hydrochloric acid, the following occurs:

a. Color change from yellow to black

b. Solution decoloration

c. Ammonia production

d. Precipitation and gassing

e. Precipitation

1272. As the result of reduction of alcoholic solutions of 5-nitrofur derivatives by means of their reaction with zinc in the presence of diluted hydrochloric acid, the following occurs:

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a. Precipitation and gassing

b. Color change from yellow to black

c. Ammonia production

d. Solution decoloration

e. Precipitation

1274. At a pharmacy, during the visual inspection, an authorized person has doubts about the quality of medicines. What measures should be taken in this case?

a. Withdraw the medicines and send them for laboratory testing

b. Withdraw the medicines and send them back to the supplier

c. Withdraw the medicines and send them for disposal

d. Withdraw the medicines and send them back to the manufacturing factory

e. Withdraw the medicines and send them to the quality assurance department of the manufacturing company

1275. At a pharmacy, during the visual inspection, an authorized person has doubts about the quality of medicines. What measures should be taken in this case?

a. Withdraw the medicines and send them back to the manufacturing factory

b. Withdraw the medicines and send them for laboratory testing

c. Withdraw the medicines and send them for disposal

d. Withdraw the medicines and send them back to the supplier

e. Withdraw the medicines and send them to the quality assurance department of the manufacturing company

1276. At a pharmacy, during the visual inspection, an authorized person has doubts about the quality of medicines. What measures should be taken in this case?

a. Withdraw the medicines and send them to the quality assurance department of the manufacturing company

b. Withdraw the medicines and send them back to the manufacturing factory

c. Withdraw the medicines and send them for laboratory testing

d. Withdraw the medicines and send them for disposal

e. Withdraw the medicines and send them back to the supplier

1277. At a pharmacy, the pharmacist makes vaginal suppositories. What is the permissible range of the average weight of such suppositories?

a. 2.0-6.5 g

b. 1.5-6.0 g

c. 3.0-7.0 g

d. 4.0-7.5 g

e. 1.0-4.0 g

1278. At a pharmacy, the pharmacist makes vaginal suppositories. What is the permissible range of

the average weight of such suppositories?

- a. 4.0-7.5 g
- b. 3.0-7.0 g
- c. 1.5-6.0 g**
- d. 2.0-6.5 g
- e. 1.0-4.0 g

1279. At a pharmacy, the pharmacist makes vaginal suppositories. What is the permissible range of the average weight of such suppositories?

- a. 4.0-7.5 g
- b. 3.0-7.0 g
- c. 1.0-4.0 g
- d. 2.0-6.5 g
- e. 1.5-6.0 g**

1280. At the end of a working day, a cashier prepares the sales proceeds received in cash for the transfer to the bank account through a collecting agent. What document must be issued by the cashier for the cash transfer in this case?

a. Payment summary

- b. Payment order
- c. Payment request and order
- d. Cheque payable
- e. Cash cheque

1281. At the end of a working day, a cashier prepares the sales proceeds received in cash for the transfer to the bank account through a collecting agent. What document must be issued by the cashier for the cash transfer in this case?

- a. Cheque payable
- b. Payment order

c. Payment summary

- d. Payment request and order
- e. Cash cheque

1282. At the end of a working day, a cashier prepares the sales proceeds received in cash for the transfer to the bank account through a collecting agent. What document must be issued by the cashier for the cash transfer in this case?

- a. Payment request and order
- b. Cash cheque

c. Payment summary

- d. Payment order
- e. Cheque payable

1283. At the end of each month a pharmacy accountant draws up a balance. What indicator characterizes liabilities of a pharmaceutical company?

- a. Circulating assets
- b. Accounts receivable
- c. Reserves and expenses

d. Equity capital

- e. Work-in-process inventory

1284. At the end of each month a pharmacy accountant draws up a balance. What indicator characterizes liabilities of a pharmaceutical company?

- a. Work-in-process inventory

b. Equity capital

- c. Circulating assets
- d. Reserves and expenses
- e. Accounts receivable

1285. At the end of each month a pharmacy accountant draws up a balance. What indicator characterizes liabilities of a pharmaceutical company?

- a. Work-in-process inventory
- b. Reserves and expenses

- c. Accounts receivable
- d. Circulating assets

e. Equity capital

1286. At the exhibition, calendars, notebooks, and business gifts with the logo of a pharmaceutical company were handed out to the exhibition visitors for free. What is this type of advertising called?

a. Souvenir advertising

- b. Out-of-home advertising
- c. Point-of-sale advertising
- d. Film advertising
- e. Print advertising

1287. At the exhibition, calendars, notebooks, and business gifts with the logo of a pharmaceutical company were handed out to the exhibition visitors for free. What is this type of advertising called?

a. Souvenir advertising

- b. Point-of-sale advertising
- c. Film advertising
- d. Print advertising
- e. Out-of-home advertising

1288. At the exhibition, calendars, notebooks, and business gifts with the logo of a pharmaceutical company were handed out to the exhibition visitors for free. What is this type of advertising called?

a. Out-of-home advertising

b. Souvenir advertising

- c. Film advertising
- d. Print advertising
- e. Point-of-sale advertising

1289. At the laboratory of a pharmaceutical company, a corticosteroid medicinal substance - hydrocortisone acetate - is being analyzed. What cycle in its molecule causes the appearance of an intense bright yellow coloring, when concentrated sulfuric acid is added?

- a. Pyridine cycle
- b. Imidazole cycle
- c. Naphthalene cycle

d. Steroid cycle

e. Xanthine cycle

1290. At the laboratory of a pharmaceutical company, a corticosteroid medicinal substance - hydrocortisone acetate - is being analyzed. What cycle in its molecule causes the appearance of an intense bright yellow coloring, when concentrated sulfuric acid is added?

- a. Pyridine cycle
- b. Xanthine cycle
- c. Imidazole cycle

d. Steroid cycle

e. Naphthalene cycle

1291. At the laboratory of a pharmaceutical company, a corticosteroid medicinal substance - hydrocortisone acetate - is being analyzed. What cycle in its molecule causes the appearance of an intense bright yellow coloring, when concentrated sulfuric acid is added?

- a. Xanthine cycle
- b. Naphthalene cycle
- c. Pyridine cycle

d. Steroid cycle

e. Imidazole cycle

1292. At the laboratory of pharmacopoeial analysis, glutamic acid is being identified using the method of thin-layer chromatography. What reagent is used to develop a chromatogram?

a. Ninhydrin

- b. Aniline
- c. Diphenylamine
- d. Cyanogen bromide
- e. Pyridine

1293. At the laboratory of pharmacopoeial analysis, glutamic acid is being identified using the method of thin-layer chromatography. What reagent is used to develop a chromatogram?

- a. Cyanogen bromide
- b. Diphenylamine
- c. Aniline
- d. Pyridine

e. Ninhydrin

1294. At the laboratory of pharmacopoeial analysis, glutamic acid is being identified using the method of thin-layer chromatography. What reagent is used to develop a chromatogram?

- a. Pyridine
- b. Aniline

c. Ninhydrin

- d. Cyanogen bromide
- e. Diphenylamine

1295. At the phytochemical workshop, percolation method is used to produce Crataegus tincture. What percolation rate is necessary for this purpose?

a. 1/24 or 1/48 part of the percolator's working volume per hour

- b. 1/40 of the percolator's volume per hour
- c. 1/20 of the percolator's volume per hour
- d. 1/30 of the percolator's volume per 30 minutes
- e. 1/10 of the percolator's volume per 20 minutes

1296. At the phytochemical workshop, percolation method is used to produce Crataegus tincture. What percolation rate is necessary for this purpose?

- a. 1/20 of the percolator's volume per hour
- b. 1/10 of the percolator's volume per 20 minutes
- c. 1/30 of the percolator's volume per 30 minutes

d. 1/24 or 1/48 part of the percolator's working volume per hour

- e. 1/40 of the percolator's volume per hour

1297. At the phytochemical workshop, percolation method is used to produce Crataegus tincture. What percolation rate is necessary for this purpose?

- a. 1/30 of the percolator's volume per 30 minutes
- b. 1/20 of the percolator's volume per hour

c. 1/24 or 1/48 part of the percolator's working volume per hour

- d. 1/40 of the percolator's volume per hour
- e. 1/10 of the percolator's volume per 20 minutes

1298. At what cost will protargol nasal drops be dispensed at a pharmacy if a pediatrician prescribes it for treatment of a 2-year-old child?

a. At full cost

b. Free of charge

- c. With 50% discount
- d. With 30% discount
- e. With 70% discount

1299. At what cost will protargol nasal drops be dispensed at a pharmacy if a pediatrician prescribes it for treatment of a 2-year-old child?

- a. With 30% discount
- b. With 70% discount

c. Free of charge

- d. At full cost
- e. With 50% discount

1300. At what cost will protargol nasal drops be dispensed at a pharmacy if a pediatrician prescribes it for treatment of a 2-year-old child?

- a. With 50% discount
- b. With 30% discount
- c. At full cost
- d. With 70% discount

e. Free of charge

1301. Atropa belladonna grass extract is a component of compound antispasmodic drugs. Select such drug from the list:

- a. Herbogastrine
- b. Urolesan
- c. Olimetinum
- d. Solutan

e. Bellasthesin

1302. Atropa belladonna grass extract is a component of compound antispasmodic drugs. Select such drug from the list:

- a. Olimetinum

b. Bellasthesin

- c. Solutan
- d. Urolesan
- e. Herbogastrine

1303. Atropa belladonna grass extract is a component of compound antispasmodic drugs. Select such drug from the list:

- a. Olimetinum

b. Bellasthesin

- c. Urolesan
- d. Herbogastrine
- e. Solutan

1304. Audit of the macroenvironment of a pharmaceutical company has revealed a change in the number, density, and age structure of the population. What factors of the macroenvironment were studied?

a. Socio-demographic

- b. Technological
- c. Political
- d. Environmental and ecological
- e. Economic

1305. Audit of the macroenvironment of a pharmaceutical company has revealed a change in the number, density, and age structure of the population. What factors of the macroenvironment were studied?

- a. Environmental and ecological

b. Socio-demographic

- c. Technological
- d. Political
- e. Economic

1306. Audit of the macroenvironment of a pharmaceutical company has revealed a change in the number, density, and age structure of the population. What factors of the macroenvironment were studied?

- a. Political
- b. Economic
- c. Technological
- d. Environmental and ecological

e. Socio-demographic

1307. Bank is a financial mediator in pharmacy's payments. Payment of taxes withheld from the employees' salary into the budget requires the following document:

a. Payment order

- b. Accounting form
- c. Cash register receipt
- d. Cash order
- e. Check payable in account

1308. Bank is a financial mediator in pharmacy's payments. Payment of taxes withheld from the employees' salary into the budget requires the following document:

- a. Check payable in account
- b. Accounting form
- c. Cash order

d. Payment order

- e. Cash register receipt

1309. Bank is a financial mediator in pharmacy's payments. Payment of taxes withheld from the employees' salary into the budget requires the following document:

- a. Check payable in account
- b. Cash order
- c. Accounting form

d. Payment order

- e. Cash register receipt

1310. Based on the medical certificate, a patient can receive financial assistance due to temporary disability. Financial assistance for temporary disability **CANNOT** be provided:

a. In case of intentional self-harm

- b. -
- c. If sick leave is taken for child care
- d. In case of disease (trauma)
- e. If only sanatorium-and-spa treatment is required

1311. Based on the medical certificate, a patient can receive financial assistance due to temporary disability. Financial assistance for temporary disability **CANNOT** be provided:

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- c. If only sanatorium-and-spa treatment is required
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1312. Based on the medical certificate, a patient can receive financial assistance due to temporary disability. Financial assistance for temporary disability **CANNOT** be provided:

- a. If sick leave is taken for child care
- b. If only sanatorium-and-spa treatment is required
- c. -

d. In case of intentional self-harm

- e. In case of disease (trauma)

1313. Based on the results of marketing research, the CEO of a pharmaceutical company and a team of marketologists have decided to take measures toward improvement of the competitive ability of the company's medical products. This kind of decision can be characterized as:

- a. -
- b. Autocratic
- c. Personal

d. Collegial

- e. Intuitive

1314. Based on the results of marketing research, the CEO of a pharmaceutical company and a team of marketologists have decided to take measures toward improvement of the competitive ability of the company's medical products. This kind of decision can be characterized as:

- a. Personal
- b. -
- c. Autocratic
- d. Intuitive

e. Collegial

1315. Based on the results of marketing research, the CEO of a pharmaceutical company and a team of marketologists have decided to take measures toward improvement of the competitive ability of the company's medical products. This kind of decision can be characterized as:

- a. Personal
- b. -
- c. Intuitive

d. Autocratic

e. Collegial

1316. Batches of several fatty oils were sent to the analytical quality control laboratory. One of the criteria for the study of fatty oils is determining their solubility. What oil is well soluble in ethyl alcohol?

a. Castor oil

b. Sunflower oil

c. Cocoa butter

d. Flaxseed oil

e. Olive oil

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a. Cocoa butter

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c. Olive oil

d. Castor oil

e. Flaxseed oil

1318. Batches of several fatty oils were sent to the analytical quality control laboratory. One of the criteria for the study of fatty oils is determining their solubility. What oil is well soluble in ethyl alcohol?

a. Sunflower oil

b. Flaxseed oil

c. Castor oil

d. Cocoa butter

e. Olive oil

1319. Because of a power outage, the cash register in a pharmacy has stopped working. What should be used to perform transactions, while the cash register remains inoperable?

a. Transactions log book

b. Invoices

c. Cash deposit and cash withdrawal receipts

d. Payment orders

e. Payroll records

1320. Because of a power outage, the cash register in a pharmacy has stopped working. What should be used to perform transactions, while the cash register remains inoperable?

a. Cash deposit and cash withdrawal receipts

b. Invoices

c. Payment orders

d. Payroll records

e. Transactions log book

1321. Because of a power outage, the cash register in a pharmacy has stopped working. What should be used to perform transactions, while the cash register remains inoperable?

a. Payment orders

b. Payroll records

c. Cash deposit and cash withdrawal receipts

d. Transactions log book

e. Invoices

1322. Because of dissatisfaction with working conditions, a dispensing chemist has resigned of his own free will from the pharmacy and found a job as a medical representative of a pharmaceutical company. Such movement of the personnel corresponds with the following concept:

a. Staff turnover

b. Recruitment

c. -

d. Staff rotation

e. Promotion

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1324. Because of dissatisfaction with working conditions, a dispensing chemist has resigned of his own free will from the pharmacy and found a job as a medical representative of a pharmaceutical company. Such movement of the personnel corresponds with the following concept:

a. Promotion

b. Recruitment

c. -

d. Staff turnover

e. Staff rotation

1325. Benzocaine is a substance with local anesthetic activity. According to its chemical structure, it is a derivative of:

a. n-Aminobenzene sulfonic acid

b. n-Aminosalicylic acid

c. n-Chlorobenzoic acid

d. n-Aminophthalic acid

e. n-Aminobenzoic acid

1326. Benzocaine is a substance with local anesthetic activity. According to its chemical structure, it is a derivative of:

a. n-Aminosalicylic acid

b. n-Aminobenzoic acid

c. n-Aminobenzene sulfonic acid

d. n-Chlorobenzoic acid

e. n-Aminophthalic acid

1327. Benzocaine is a substance with local anesthetic activity. According to its chemical structure, it is a derivative of:

a. n-Chlorobenzoic acid

b. n-Aminophthalic acid

c. n-Aminobenzene sulfonic acid

d. n-Aminosalicylic acid

e. n-Aminobenzoic acid

1328. Benzoic acid is known to have antiseptic properties. To identify this acid the following should be used:

a. KMnO_4

b. K_2CrO_4

c. $\text{K}_2[\text{HgI}_4]$

d. FeCl_3

e. $[\text{NH}_4]_2\text{C}_2\text{O}_4$

1329. Benzoic acid is known to have antiseptic properties. To identify this acid the following should be used:

a. K_2CrO_4

b. $\text{K}_2[\text{HgI}_4]$

c. FeCl_3

d. KMnO_4

e. $[\text{NH}_4]_2\text{C}_2\text{O}_4$

1330. Benzoic acid is known to have antiseptic properties. To identify this acid the following should be used:

a. $\text{K}_2[\text{HgI}_4]$

b. $[\text{NH}_4]_2\text{C}_2\text{O}_4$

c. K_2CrO_4

d. $KMnO_4$

e. $FeCl_3$

1331. *Berberis vulgaris* herbal raw material is a source of medicinal substances with cholagogic and hemostatic effect. What parts of this plant are harvested as a herbal raw material?

a. Leaves and fruits

b. Roots and leaves

c. Roots and fruits

d. Leaves and seeds

e. Leaves and flowers

1332. *Berberis vulgaris* herbal raw material is a source of medicinal substances with cholagogic and hemostatic effect. What parts of this plant are harvested as a herbal raw material?

a. Leaves and fruits

b. Roots and fruits

c. Leaves and seeds

d. Leaves and flowers

e. Roots and leaves

1333. *Berberis vulgaris* herbal raw material is a source of medicinal substances with cholagogic and hemostatic effect. What parts of this plant are harvested as a herbal raw material?

a. Leaves and seeds

b. Leaves and fruits

c. Roots and fruits

d. Leaves and flowers

e. Roots and leaves

1334. Bilitrast is an X-ray contrast substance. What reagent can confirm the presence of phenolic hydroxyl in its molecule?

a. Iron(III) chloride solution

b. Silver nitrate solution

c. Alcoholic iodine solution

d. Iodine dissolved in potassium iodide

e. Hydrochloric acid solution

1335. Bilitrast is an X-ray contrast substance. What reagent can confirm the presence of phenolic hydroxyl in its molecule?

a. Silver nitrate solution

b. Iron(III) chloride solution

c. Iodine dissolved in potassium iodide

d. Hydrochloric acid solution

e. Alcoholic iodine solution

1336. Bilitrast is an X-ray contrast substance. What reagent can confirm the presence of phenolic hydroxyl in its molecule?

a. Silver nitrate solution

b. Iodine dissolved in potassium iodide

c. Alcoholic iodine solution

d. Hydrochloric acid solution

e. Iron(III) chloride solution

1337. Bioactive substances of this plant have secretolytic, antispasmodic, antifatulent, and slight diuretic effect. Its essential oil is used in making of gripe water. What plant is it?

a. *Betula pendula*

b. *Calendula officinalis*

c. *Crataegus sanguinea*

d. *Tanacetum vulgare*

e. *Foeniculum vulgare*

1338. Bioactive substances of this plant have secretolytic, antispasmodic, antifatulent, and slight diuretic effect. Its essential oil is used in making of gripe water. What plant is it?

a. *Calendula officinalis*

- b. *Crataegus sanguinea*
- c. *Betula pendula*
- d. *Tanacetum vulgare*

e. *Foeniculum vulgare*

1339. Bioactive substances of this plant have secretolytic, antispasmodic, antifatulent, and slight diuretic effect. Its essential oil is used in making of gripe water. What plant is it?

- a. *Tanacetum vulgare*
- b. *Betula pendula*

c. *Foeniculum vulgare*

- d. *Calendula officinalis*
- e. *Crataegus sanguinea*

1340. Birch buds are used as a diuretic. Quality of the herbal raw material is determined by its content of:

a. Lipids

b. Essential oil

- c. Saponins
- d. Iridoids
- e. Vitamins

1341. Birch buds are used as a diuretic. Quality of the herbal raw material is determined by its content of:

a. Saponins

b. Essential oil

- c. Lipids
- d. Iridoids
- e. Vitamins

1342. Birch buds are used as a diuretic. Quality of the herbal raw material is determined by its content of:

- a. Vitamins
- b. Saponins
- c. Iridoids

d. Essential oil

e. Lipids

1343. *Brassica juncea* seeds are the raw material for the production of drugs with a distracting and warming effect. What class of bioactive substances causes such effect of the drugs?

a. Thioglycosides

- b. Alkaloids
- c. Flavonoids
- d. Fatty oil
- e. Polysaccharides

1344. *Brassica juncea* seeds are the raw material for the production of drugs with a distracting and warming effect. What class of bioactive substances causes such effect of the drugs?

a. Thioglycosides

- b. Polysaccharides
- c. Flavonoids
- d. Fatty oil
- e. Alkaloids

1345. *Brassica juncea* seeds are the raw material for the production of drugs with a distracting and warming effect. What class of bioactive substances causes such effect of the drugs?

- a. Flavonoids
- b. Fatty oil
- c. Polysaccharides
- d. Alkaloids

e. Thioglycosides

1346. Bromatometry allows quantitative analysis of the following drug:

a. Sodium salicylate

- b. Potassium acetate
- c. Glutamic acid
- d. Benzoic acid
- e. beta-Alanine

1347. Bromatometry allows quantitative analysis of the following drug:

- a. Benzoic acid
- b. Potassium acetate
- c. beta-Alanine

d. Sodium salicylate

- e. Glutamic acid

1348. Bromatometry allows quantitative analysis of the following drug:

- a. Glutamic acid
- b. Potassium acetate
- c. beta-Alanine
- d. Benzoic acid

e. Sodium salicylate

1349. Buckthorn bark and its derivative drugs are used as laxatives in medicine. According to the State Pharmacopoeia of Ukraine during chromatographic identification of buckthorn bark it is necessary to detect:

a. Glucofrangulins

- b. Lanatosides
- c. Panaxosides
- d. Purpurea glycosides
- e. Ginkgosides

1350. Buckthorn bark and its derivative drugs are used as laxatives in medicine. According to the State Pharmacopoeia of Ukraine during chromatographic identification of buckthorn bark it is necessary to detect:

- a. Panaxosides

b. Glucofrangulins

- c. Ginkgosides
- d. Lanatosides
- e. Purpurea glycosides

1351. Buckthorn bark and its derivative drugs are used as laxatives in medicine. According to the State Pharmacopoeia of Ukraine during chromatographic identification of buckthorn bark it is necessary to detect:

- a. Purpurea glycosides
- b. Panaxosides
- c. Lanatosides

d. Glucofrangulins

- e. Ginkgosides

1352. Buckthorn bark is used as a laxative. This herbal raw material colors red if an alkaline solution is added, which indicates the presence of the following substances:

- a. Alkaloids

b. Anthracene derivatives

- c. Flavonoids
- d. Vitamins
- e. Tannins

1353. Buckthorn bark is used as a laxative. This herbal raw material colors red if an alkaline solution is added, which indicates the presence of the following substances:

- a. Tannins
- b. Flavonoids
- c. Vitamins

d. Anthracene derivatives

- e. Alkaloids

1354. Buckthorn bark is used as a laxative. This herbal raw material colors red if an alkaline solution

is added, which indicates the presence of the following substances:

a. Vitamins

b. Tannins

c. Anthracene derivatives

d. Alkaloids

e. Flavonoids

1355. Calcium gluconate is being tested for presence of admixtures of saccharose and reducing sugars with copper-tartrate reagent. If these admixtures are present the substance colors:

a. Red

b. Blue

c. Green

d. Turquoise

e. White

1356. Calcium gluconate is being tested for presence of admixtures of saccharose and reducing sugars with copper-tartrate reagent. If these admixtures are present the substance colors:

a. Red

b. White

c. Green

d. Turquoise

e. Blue

1357. Calcium gluconate is being tested for presence of admixtures of saccharose and reducing sugars with copper-tartrate reagent. If these admixtures are present the substance colors:

a. Turquoise

b. White

c. Green

d. Blue

e. Red

1358. Calendula Ointment is placed on the shelf next to Dr. Theiss Calendula Ointment. What approach to the shelf layout is used in this pharmacy?

a. By package size

b. Corporate block layout

c. Seasonality

d. Among competitors

e. Doubling product facings

1359. Calendula Ointment is placed on the shelf next to Dr. Theiss Calendula Ointment. What approach to the shelf layout is used in this pharmacy?

a. Corporate block layout

b. By package size

c. Seasonality

d. Among competitors

e. Doubling product facings

1360. Calendula Ointment is placed on the shelf next to Dr. Theiss Calendula Ointment. What approach to the shelf layout is used in this pharmacy?

a. Seasonality

b. By package size

c. Corporate block layout

d. Among competitors

e. Doubling product facings

1361. Camomile flowers are a popular medicinal substance in scientific medicine. What plant is the source of this herbal raw material?

a. Anthemis arvensis

b. Leucanthemum vulgare

c. Anthemis cotula

d. Chamomilla recutita

e. Tripleurospermum inodorum

1362. Camomile flowers are a popular medicinal substance in scientific medicine. What plant is the source of this herbal raw material?

- a. *Leucanthemum vulgare*
- b. *Tripleurospermum inodorum*
- c. *Chamomilla recutita***
- d. *Anthemis arvensis*
- e. *Anthemis cotula*

1363. Capsaicin is the main active substance of *Capsicum annuum*. It belongs to the following class of bioactive substances:

- a. Flavonoids
- b. Alkaloids**

- c. Iridoids
- d. Anthracene derivatives
- e. Phenolic compounds

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- a. Iridoids
- b. Anthracene derivatives

c. Alkaloids

- d. Phenolic compounds
- e. Flavonoids

1366. Cash can be withdrawn from the organisation's funds on the basis of a withdrawal receipt. What transaction requires a withdrawal receipt?

a. Payment for the goods purchased for the household needs

- b. Receipt of the proceeds from sales
- c. Coverage of the shortages revealed during the stock-taking
- d. Receipt of the funds for salary payment
- e. Return of unused accountable funds

1367. Cash can be withdrawn from the organisation's funds on the basis of a withdrawal receipt. What transaction requires a withdrawal receipt?

a. Payment for the goods purchased for the household needs

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- c. Coverage of the shortages revealed during the stock-taking
- d. Return of unused accountable funds
- e. Receipt of the funds for salary payment

1368. Cash can be withdrawn from the organisation's funds on the basis of a withdrawal receipt. What transaction requires a withdrawal receipt?

b. Payment for the goods purchased for the household needs

- c. Return of unused accountable funds
- d. Receipt of the funds for salary payment
- e. Coverage of the shortages revealed during the stock-taking

1369. *Centaurium erythraea* grass increases appetite and is a component of herbal teas for stomach. What active substance causes this effect of the herbal raw material?

a. Iridoids

- b. Simple phenols
- c. Flavonoids
- d. Saponins

e. Alkaloids

1370. Centaurium erythraea grass increases appetite and is a component of herbal teas for stomach. What active substance causes this effect of the herbal raw material?

a. Iridoids

b. Simple phenols

c. Saponins

d. Alkaloids

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1371. Centaurium erythraea grass increases appetite and is a component of herbal teas for stomach. What active substance causes this effect of the herbal raw material?

a. Simple phenols

b. Iridoids

c. Alkaloids

d. Flavonoids

e. Saponins

1372. Chemical analysis of Helichrysum flowers shows positive results of the cyanidin test. This reaction indicates the presence of the following class of compounds:

a. Polysaccharides

b. Flavonoids

c. Alkaloids

d. Coumarins

e. Saponins

1373. Chemical analysis of Helichrysum flowers shows positive results of the cyanidin test. This reaction indicates the presence of the following class of compounds:

a. Polysaccharides

b. Flavonoids

c. Coumarins

d. Saponins

e. Alkaloids

1374. Chemical analysis of Helichrysum flowers shows positive results of the cyanidin test. This reaction indicates the presence of the following class of compounds:

a. Polysaccharides

b. Flavonoids

c. Saponins

d. Coumarins

e. Alkaloids

1375. Chloride of lime is identified by calcium cations after boiling with acetic acid in order to eliminate active chlorine. What reagent is used?

a. Ammonium oxalate

b. Ammonium molybdate

c. Potassium chloride

d. Magnesium sulfate

e. Sodium nitrite

1376. Chloride of lime is identified by calcium cations after boiling with acetic acid in order to eliminate active chlorine. What reagent is used?

a. Ammonium molybdate

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c. Magnesium sulfate

d. Potassium chloride

e. Ammonium oxalate

1377. Chloride of lime is identified by calcium cations after boiling with acetic acid in order to eliminate active chlorine. What reagent is used?

a. Magnesium sulfate

b. Ammonium molybdate

c. Sodium nitrite

d. Ammonium oxalate

e. Potassium chloride

1378. Choose the solvent necessary to prepare concentrated solution of sodium bicarbonate in a pharmacy:

a. Chloroform

b. Purified water

c. Peach-kernel oil

d. Vaseline

e. Ethanol

1379. Choose the solvent necessary to prepare concentrated solution of sodium bicarbonate in a pharmacy:

a. Ethanol

b. Peach-kernel oil

c. Chloroform

d. Vaseline

e. Purified water

1380. Choose the solvent necessary to prepare concentrated solution of sodium bicarbonate in a pharmacy:

a. Vaseline

b. Purified water

c. Peach-kernel oil

d. Ethanol

e. Chloroform

1381. Chromatographic methods are used in pharmaceutical analysis. What type of chromatography is based on reversible chemisorption of the ions of the analyte solution by the ionogenic groups of the sorbent?

a. Gas chromatography

b. Ion-exchange chromatography

c. Thin layer chromatography

d. Adsorption chromatography

e. Paper chromatography

1382. Chromatographic methods are used in pharmaceutical analysis. What type of chromatography is based on reversible chemisorption of the ions of the analyte solution by the ionogenic groups of the sorbent?

a. Paper chromatography

b. Gas chromatography

c. Thin layer chromatography

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1383. Chromatographic methods are used in pharmaceutical analysis. What type of chromatography is based on reversible chemisorption of the ions of the analyte solution by the ionogenic groups of the sorbent?

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b. Adsorption chromatography

c. Gas chromatography

d. Ion-exchange chromatography

e. Paper chromatography

1384. Clonidine hydrochloride is a salt of an organic base. What method is used for the quantification of this medicinal substance?

a. Alkalimetry

b. Bromatometry

c. Nitritometry

d. Iodometry

e. Complexonometry

1385. Clonidine hydrochloride is a salt of an organic base. What method is used for the quantification

of this medicinal substance?

- a. Complexonometry
- b. Bromatometry
- c. Alkalimetry**
- d. Nitritometry
- e. Iodometry

1386. Clonidine hydrochloride is a salt of an organic base. What method is used for the quantification of this medicinal substance?

- a. Nitritometry
- b. Bromatometry
- c. Alkalimetry**

- d. Complexonometry
- e. Iodometry

1387. Codeine is used as a cough-depressant. What herbal raw material contains this alkaloid?

- a. Pods of opium poppy**
- b. Celandine grass
- c. Grass of common periwinkle
- d. Grass of plume poppy
- e. Tea leaves

1388. Codeine is used as a cough-depressant. What herbal raw material contains this alkaloid?

- a. Grass of plume poppy
- b. Grass of common periwinkle
- c. Pods of opium poppy**

- d. Celandine grass
- e. Tea leaves

1389. Codeine is used as a cough-depressant. What herbal raw material contains this alkaloid?

- a. Grass of plume poppy
- b. Grass of common periwinkle
- c. Celandine grass
- d. Pods of opium poppy**

- e. Tea leaves

1390. Collective labour agreement is concluded by a trade union committee with the business owner on behalf of the workforce. Any collective agreement is worked out in written form. Which article of the Labour Code regulates the duration of the collective agreement?

- a. 17**
- b. 36
- c. 41
- d. 40
- e. 38

1391. Collective labour agreement is concluded by a trade union committee with the business owner on behalf of the workforce. Any collective agreement is worked out in written form. Which article of the Labour Code regulates the duration of the collective agreement?

- a. 36
- b. 38
- c. 40
- d. 41
- e. 17**

1392. Collective labour agreement is concluded by a trade union committee with the business owner on behalf of the workforce. Any collective agreement is worked out in written form. Which article of the Labour Code regulates the duration of the collective agreement?

- a. 38
- b. 40
- c. 36
- d. 17**
- e. 41

1393. Commercial and financial activity of a pharmacy involves using returnable tare. Which of the following containers are returned to the supplier?

- a. Metal cylinders
- b. Glass-stoppered bottles
- c. Paper boxes
- d. Packaging materials
- e. Glassware

1394. Commercial and financial activity of a pharmacy involves using returnable tare. Which of the following containers are returned to the supplier?

- a. Glassware
- b. Metal cylinders
- c. Packaging materials
- d. Paper boxes
- e. Glass-stoppered bottles

1395. Commercial and financial activity of a pharmacy involves using returnable tare. Which of the following containers are returned to the supplier?

- a. Packaging materials
- b. Metal cylinders
- c. Paper boxes
- d. Glassware
- e. Glass-stoppered bottles

1396. Commercial and financial activity of the pharmacies can be measured using a system of parameters. What parameter can be described as the sum of sold goods per employee (taking the average number of employees during the analyzed period)?

- a. Labor productivity
- b. Stock of goods
- c. Turnover
- d. Profitability
- e. Price index

1397. Commercial and financial activity of the pharmacies can be measured using a system of parameters. What parameter can be described as the sum of sold goods per employee (taking the average number of employees during the analyzed period)?

- a. Price index
- b. Profitability
- c. Turnover
- d. Labor productivity
- e. Stock of goods

1398. Commercial and financial activity of the pharmacies can be measured using a system of parameters. What parameter can be described as the sum of sold goods per employee (taking the average number of employees during the analyzed period)?

- a. Profitability
- b. Price index
- c. Stock of goods
- d. Labor productivity
- e. Turnover

1399. Companies draw up their balance sheets to obtain information about the availability and composition of their property. What section of the balance sheet includes accounts receivable for goods?

- a. Assets
- b. Equity capital
- c. Current liabilities
- d. Long-term liabilities
- e. Non-current assets

1400. Companies draw up their balance sheets to obtain information about the availability and composition of their property. What section of the balance sheet includes accounts receivable for

goods?

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b. Long-term liabilities

c. Equity capital

d. Current liabilities

e. Non-current assets

1401. Companies draw up their balance sheets to obtain information about the availability and composition of their property. What section of the balance sheet includes accounts receivable for goods?

a. Long-term liabilities

b. Non-current assets

c. Assets

d. Current liabilities

e. Equity capital

1402. Complex drug product Urolesan is a litholytic, antispasmodic, and diuretic agent. It contains ethanolic extract of:

a. *Rhododendron tomentosum*

b. *Origanum vulgare*

c. -

d. *Matricaria chamomilla*

e. *Thymus serpyllum*

1403. Complex drug product Urolesan is a litholytic, antispasmodic, and diuretic agent. It contains ethanolic extract of:

a. *Rhododendron tomentosum*

b. *Origanum vulgare*

c. -

d. *Thymus serpyllum*

e. *Matricaria chamomilla*

1404. Complex drug product Urolesan is a litholytic, antispasmodic, and diuretic agent. It contains ethanolic extract of:

a. *Rhododendron tomentosum*

b. *Matricaria chamomilla*

c. -

d. *Thymus serpyllum*

e. *Origanum vulgare*

1405. Concentrated solutions are used to speed up the preparation of mixtures. What volume of a 5% sodium bicarbonate solution (1:20) must be taken to prepare a mixture that contains 6.0 g of the medicinal substance?

a. 120 mL

b. 90 mL

c. 30 mL

d. 7.5 mL

e. 60 mL

1406. Concentrated solutions are used to speed up the preparation of mixtures. What volume of a 5% sodium bicarbonate solution (1:20) must be taken to prepare a mixture that contains 6.0 g of the medicinal substance?

a. 60 mL

b. 30 mL

c. 7.5 mL

d. 90 mL

e. 120 mL

1407. Concentrated solutions are used to speed up the preparation of mixtures. What volume of a 5% sodium bicarbonate solution (1:20) must be taken to prepare a mixture that contains 6.0 g of the medicinal substance?

a. 7.5 mL

- b. 60 mL
- c. 30 mL
- d. 90 mL

e. 120 mL

1408. Considering thermolability of most animal-derived injection preparations, they are sterilized by means of:

- a. Addition of buffer solutions
- b. High frequency current

c. Filtration through membrane

- d. In autoclave chamber with high-pressure saturated steam
- e. Ultrasound

1409. Considering thermolability of most animal-derived injection preparations, they are sterilized by means of:

- a. In autoclave chamber with high-pressure saturated steam
- b. Addition of buffer solutions
- c. High frequency current
- d. Ultrasound

e. Filtration through membrane

1410. Considering thermolability of most animal-derived injection preparations, they are sterilized by means of:

- a. In autoclave chamber with high-pressure saturated steam
- b. High frequency current

c. Filtration through membrane

- d. Ultrasound
- e. Addition of buffer solutions

1411. Core tablets that are to be made into dragees must not have a flat shape. Why such requirement is necessary?

- a. They are not durable enough
- b. To speed up the process of applying the coating
- c. To improve their appearance
- d. To avoid prolonged contact with overlaying suspension

e. To prevent them from adhesion to each other

1412. Core tablets that are to be made into dragees must not have a flat shape. Why such requirement is necessary?

- a. To avoid prolonged contact with overlaying suspension
- b. To speed up the process of applying the coating
- c. They are not durable enough

d. To prevent them from adhesion to each other

- e. To improve their appearance

1413. Core tablets that are to be made into dragees must not have a flat shape. Why such requirement is necessary?

- a. To improve their appearance
- b. They are not durable enough
- c. To avoid prolonged contact with overlaying suspension

d. To prevent them from adhesion to each other

- e. To speed up the process of applying the coating

1414. Cross-section of the leaf of a medicinal plant shows cystoliths and stinging hairs with a multicellular base and a large cell on the apex that ends in a widened tip that breaks off. What herbal raw material has such microscopic characteristics?

a. Urtica dioica

- b. Origanum vulgare
- c. Atropa belladonna
- d. Capsella bursa-pastoris
- e. Mentha piperita

1415. Cross-section of the leaf of a medicinal plant shows cystoliths and stinging hairs with a

multicellular base and a large cell on the apex that ends in a widened tip that breaks off. What herbal raw material has such microscopic characteristics?

- a. *Atropa belladonna*
- b. *Capsella bursa-pastoris*
- c. *Urtica dioica*
- d. *Mentha piperita*
- e. *Origanum vulgare*

1416. Cross-section of the leaf of a medicinal plant shows cystoliths and stinging hairs with a multicellular base and a large cell on the apex that ends in a widened tip that breaks off. What herbal raw material has such microscopic characteristics?

- a. *Capsella bursa-pastoris*
- b. *Mentha piperita*
- c. *Atropa belladonna*
- d. *Urtica dioica*
- e. *Origanum vulgare*

1417. *Cynara scolymus* herbal raw material is a source of drugs with antisclerotic, choleretic, and hepatoprotective effect. What parts of the plant are harvested as a herbal raw material?

- a. Leaves and flower heads
- b. Fruits
- c. Seeds
- d. Roots
- e. Grass

1418. *Cynara scolymus* herbal raw material is a source of drugs with antisclerotic, choleretic, and hepatoprotective effect. What parts of the plant are harvested as a herbal raw material?

- a. Roots
- b. Fruits
- c. Seeds
- d. Leaves and flower heads
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1419. *Cynara scolymus* herbal raw material is a source of drugs with antisclerotic, choleretic, and hepatoprotective effect. What parts of the plant are harvested as a herbal raw material?

- a. Roots
- b. Grass
- c. Seeds
- d. Fruits
- e. Leaves and flower heads

1420. Difference between the retail price of products sold and the margin determines:

- a. Production cost
- b. Income
- c. Breakeven
- d. Markup
- e. Margin

1421. Difference between the retail price of products sold and the margin determines:

- a. Production cost
- b. Margin
- c. Markup
- d. Income
- e. Breakeven

1422. Difference between the retail price of products sold and the margin determines:

- a. Markup
- b. Production cost
- c. Breakeven
- d. Margin
- e. Income

1423. Different types of granulation are used in the tablet production. What is the most productive

method of structural granulation?

- a. Granulation in spray dryers
- b. Granulation using briquetting
- c. Wet granulation in vertical granulators
- d. Granulation in the dragee pan

e. Granulation in the fluidized bed

1424. Different types of granulation are used in the tablet production. What is the most productive method of structural granulation?

a. Granulation using briquetting

b. Granulation in the fluidized bed

- c. Wet granulation in vertical granulators
- d. Granulation in spray dryers
- e. Granulation in the dragee pan

1425. Different types of granulation are used in the tablet production. What is the most productive method of structural granulation?

a. Wet granulation in vertical granulators

b. Granulation in the fluidized bed

- c. Granulation using briquetting
- d. Granulation in spray dryers
- e. Granulation in the dragee pan

1426. Digoxin is given to the patients with chronic heart failure. What medicinal plant that contains cardiac glycoside is a source of this medicinal substance?

a. Digitalis lanata

- b. Convallaria majalis
- c. Strophanthus kombe
- d. Erysimum canescens
- e. Adonis vernalis

1427. Digoxin is given to the patients with chronic heart failure. What medicinal plant that contains cardiac glycoside is a source of this medicinal substance?

- a. Erysimum canescens
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- c. Adonis vernalis

d. Digitalis lanata

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1428. Digoxin is given to the patients with chronic heart failure. What medicinal plant that contains cardiac glycoside is a source of this medicinal substance?

- a. Strophanthus kombe
- b. Convallaria majalis
- c. Adonis vernalis

d. Digitalis lanata

e. Erysimum canescens

1429. Direct argentometric titration using the Mohr method can be used for quantification of sulfathiazole (norsulfazole). What indicator is used in such analysis?

a. Bromophenol blue

b. Potassium chromate

- c. Tropeolin 00
- d. Starch
- e. Methylene blue

1430. Direct argentometric titration using the Mohr method can be used for quantification of sulfathiazole (norsulfazole). What indicator is used in such analysis?

a. Starch

b. Potassium chromate

- c. Bromophenol blue
- d. Methylene blue
- e. Tropeolin 00

1431. Direct argentometric titration using the Mohr method can be used for quantification of sulfathiazole (norsulfazole). What indicator is used in such analysis?

- a. Starch
- b. Tropeolin 00
- c. Potassium chromate**
- d. Methylene blue
- e. Bromophenol blue

1432. Doctor's prescription fulfills several functions. What function indicates that the doctor bears responsibility for correct prescription of medicines to the patient?

- a. Social
- b. Economic
- c. Legal**
- d. Technological
- e. Informational

1433. Doctor's prescription fulfills several functions. What function indicates that the doctor bears responsibility for correct prescription of medicines to the patient?

- a. Social
- b. Technological
- c. Informational
- d. Legal**
- e. Economic

1434. Doctor's prescription fulfills several functions. What function indicates that the doctor bears responsibility for correct prescription of medicines to the patient?

- a. Technological
- b. Informational
- c. Economic
- d. Legal**
- e. Social

1435. Doctor's prescription has several functions. What function of the prescription allows its participation in the process of payment in cases when medicines should be issued free of charge or at a reduced price?

- a. Legal
- b. Technological
- c. Social
- d. Economic**
- e. Medical

1436. Doctor's prescription has several functions. What function of the prescription allows its participation in the process of payment in cases when medicines should be issued free of charge or at a reduced price?

- a. Social
- b. Economic**
- c. Legal
- d. Medical
- e. Technological

1437. Doctor's prescription has several functions. What function of the prescription allows its participation in the process of payment in cases when medicines should be issued free of charge or at a reduced price?

- a. Social
- b. Medical
- c. Economic**
- d. Legal
- e. Technological

1438. Dosage precision during tablet making mainly depends on the following technological property of tablet mass:

- a. Lyophilic property

b. Flowability

- c. Compressibility
- d. Relative density
- e. Compression ratio

1439. Dosage precision during tablet making mainly depends on the following technological property of tablet mass:

- a. Relative density
- b. Compressibility

c. Flowability

- d. Lyophilic property
- e. Compression ratio

1440. Dosage precision during tablet making mainly depends on the following technological property of tablet mass:

- a. Relative density
- b. Compressibility
- c. Compression ratio

d. Flowability

- e. Lyophilic property

1441. Dried Vaccinium berries can be used as an astringent. The astringent properties of this herbal raw material are caused by the presence of certain substances. Name these substances.

a. Tannins

- b. Flavonoids
- c. Alkaloids
- d. Iridoids
- e. Polysaccharides

1442. Dried Vaccinium berries can be used as an astringent. The astringent properties of this herbal raw material are caused by the presence of certain substances. Name these substances.

- a. Alkaloids
- b. Polysaccharides
- c. Flavonoids

d. Tannins

- e. Iridoids

1443. Dried Vaccinium berries can be used as an astringent. The astringent properties of this herbal raw material are caused by the presence of certain substances. Name these substances.

- a. Iridoids
- b. Flavonoids
- c. Alkaloids

d. Tannins

- e. Polysaccharides

1444. Drugs derived from Rauvolfia serpentina roots are used in hypertension treatment. Authenticity of Rauvolfia serpentina herbal raw material can be confirmed by its content of:

- a. Adonitoxin
- b. Atropine
- c. Vinblastine
- d. Hyoscyamine

e. Reserpine

1445. Drugs derived from Rauvolfia serpentina roots are used in hypertension treatment. Authenticity of Rauvolfia serpentina herbal raw material can be confirmed by its content of:

- a. Atropine

b. Reserpine

- c. Vinblastine
- d. Adonitoxin
- e. Hyoscyamine

1446. Drugs derived from Rauvolfia serpentina roots are used in hypertension treatment. Authenticity of Rauvolfia serpentina herbal raw material can be confirmed by its content of:

- a. Vinblastine
- b. Reserpine**
- c. Adonitoxin
- d. Hyoscyamine
- e. Atropine

1447. During H. pylori eradication quadrotherapy, a 25-year-old man developed black feces. What medicine provoked such a side effect in this case?

a. Bismuth subcitrate

- b. Metronidazole
- c. Omeprazole
- d. Tetracycline
- e. Amoxicillin

1448. During H. pylori eradication quadrotherapy, a 25-year-old man developed black feces. What medicine provoked such a side effect in this case?

- a. Amoxicillin
- b. Tetracycline
- c. Metronidazole
- d. Omeprazole

e. Bismuth subcitrate

1449. During H. pylori eradication quadrotherapy, a 25-year-old man developed black feces. What medicine provoked such a side effect in this case?

- a. Amoxicillin
- b. Tetracycline
- c. Omeprazole
- d. Metronidazole

e. Bismuth subcitrate

1450. During a practical session in pharmaceutical chemistry, a pharmaceutical student performs quantitative determination of caffeine substance. What method according to the State Pharmacopoeia of Ukraine should be used for this purpose?

a. Acid-base titration in nonaqueous medium

- b. Cerimetry
- c. Bromometry
- d. Complexometric titration
- e. Permanganatometry

1451. During a practical session in pharmaceutical chemistry, a pharmaceutical student performs quantitative determination of caffeine substance. What method according to the State Pharmacopoeia of Ukraine should be used for this purpose?

a. Acid-base titration in nonaqueous medium

- b. Complexometric titration
- c. Cerimetry
- d. Permanganatometry
- e. Bromometry

1452. During a practical session in pharmaceutical chemistry, a pharmaceutical student performs quantitative determination of caffeine substance. What method according to the State Pharmacopoeia of Ukraine should be used for this purpose?

- a. Cerimetry
- b. Complexometric titration

c. Acid-base titration in nonaqueous medium

- d. Permanganatometry
- e. Bromometry

1453. During an asphyxiating attack the patient with bronchial asthma was given intravenously a drug that caused nausea, headache, excitation, and palpitations as side effects. What drug can cause such reaction?

a. Euphylline (Aminophylline)

- b. Papaverine hydrochloride

- c. Suprastin (Chloropyramine)
- d. Ambroxol
- e. Prednisolone

1454. During an asphyxiating attack the patient with bronchial asthma was given intravenously a drug that caused nausea, headache, excitation, and palpitations as side effects. What drug can cause such reaction?

- a. Ambroxol
- b. Suprastin (Chloropyramine)
- c. Prednisolone
- d. Papaverine hydrochloride
- e. Euphylline (Aminophylline)**

1455. During an asphyxiating attack the patient with bronchial asthma was given intravenously a drug that caused nausea, headache, excitation, and palpitations as side effects. What drug can cause such reaction?

- a. Papaverine hydrochloride
- b. Prednisolone
- c. Suprastin (Chloropyramine)
- d. Euphylline (Aminophylline)**
- e. Ambroxol

1456. During anti-Helicobacter quadrotherapy patient's feces colored black. What drug could have caused this effect?

- a. Amoxicillin
- b. Bismuth subcitrate**

- c. Omeprazole
- d. Clarithromycin
- e. Metronidazole

1457. During anti-Helicobacter quadrotherapy patient's feces colored black. What drug could have caused this effect?

- a. Amoxicillin
- b. Metronidazole
- c. Omeprazole
- d. Clarithromycin

e. Bismuth subcitrate

1458. During anti-Helicobacter quadrotherapy patient's feces colored black. What drug could have caused this effect?

- a. Clarithromycin
- b. Omeprazole

c. Bismuth subcitrate

- d. Metronidazole
- e. Amoxicillin

1459. During drug identification, a sample of the substance was moistened with concentrated sulfuric acid and the bottom of the test tube was carefully heated. A white plaque appeared that coated the test tube walls from the inside. What substance can be detected using this reaction?

- a. Nitrofurantoin (Nitrofurazone)
- b. Benzocaine
- c. Morphine hydrochloride
- d. Theophylline monohydrate

e. Sodium benzoate

1460. During drug identification, a sample of the substance was moistened with concentrated sulfuric acid and the bottom of the test tube was carefully heated. A white plaque appeared that coated the test tube walls from the inside. What substance can be detected using this reaction?

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e. Morphine hydrochloride

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a. Theophylline monohydrate

b. Nitrofurazone

c. Sodium benzoate

d. Benzocaine

e. Morphine hydrochloride

1462. During identification of a herbal raw material, an analytical chemist prepared water-based extractions and shook the test tube, which resulted in the formation of a large amount of stable foam. What bioactive substances are present in the material?

a. Alkaloids

b. Tannins

c. Anthracene derivatives

d. Saponins

e. Fatty oil

1463. During identification of a herbal raw material, an analytical chemist prepared water-based extractions and shook the test tube, which resulted in the formation of a large amount of stable foam. What bioactive substances are present in the material?

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1464. During identification of a herbal raw material, an analytical chemist prepared water-based extractions and shook the test tube, which resulted in the formation of a large amount of stable foam. What bioactive substances are present in the material?

a. Tannins

b. Fatty oil

c. Saponins

d. Anthracene derivatives

e. Alkaloids

1465. During identification of a medicinal substance, a chloroform layer colors yellow-orange after addition of a solution of chloramine and hydrochloric acid. Name this substance:

a. Potassium iodide

b. Potassium fluoride

c. Sodium bromide

d. Sodium chloride

e. Sodium fluoride

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b. Sodium bromide

c. Potassium iodide

d. Potassium fluoride

e. Sodium fluoride

1468. During identification these active substances form precipitates in gelatin and alkaloid solutions

and produce precipitates with heavy metal salts. These active substances are:

a. Tannins

- b. Glycosides
- c. Carbohydrates
- d. Lipids
- e. Iridoids

1469. During identification these active substances form precipitates in gelatin and alkaloid solutions and produce precipitates with heavy metal salts. These active substances are:

- a. Iridoids
- b. Glycosides
- c. Carbohydrates
- d. Lipids

e. Tannins

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- a. Iridoids
- b. Lipids

c. Tannins

- d. Carbohydrates
- e. Glycosides

1471. During limit test for aluminium admixture, the State Pharmacopoeia of Ukraine recommends to use the following solution as the basic reagent:

a. Sodium hypophosphite

b. Hydroxyquinoline

- c. Barium chloride
- d. Sodium tetraphenylborate
- e. Thioglycolic acid

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- d. Thioglycolic acid
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- a. Sodium tetraphenylborate
- b. Barium chloride
- c. Thioglycolic acid
- d. Sodium hypophosphite

e. Hydroxyquinoline

1474. During macroscopic analysis of rhizomes with roots, a pharmacist notes that rhizomes often have a cavity in their center. The color of the raw material is reddish-brown on the outside, while on section reddish-brown bark and orange-red wood are visible. The taste is sweet at first, but becomes slightly astringent and bitter later. What plant is the source of this herbal raw material?

a. Rubia tinctorum

- b. Mentha piperita
- c. Melissa officinalis
- d. Thymus serpyllum
- e. Sambucus nigra

1475. During macroscopic analysis of rhizomes with roots, a pharmacist notes that rhizomes often have a cavity in their center. The color of the raw material is reddish-brown on the outside, while on section reddish-brown bark and orange-red wood are visible. The taste is sweet at first, but becomes slightly astringent and bitter later. What plant is the source of this herbal raw material?

a. Melissa officinalis

- b. *Sambucus nigra*
- c. *Thymus serpyllum*
- d. *Mentha piperita*

e. *Rubia tinctorum*

1476. During macroscopic analysis of rhizomes with roots, a pharmacist notes that rhizomes often have a cavity in their center. The color of the raw material is reddish-brown on the outside, while on section reddish-brown bark and orange-red wood are visible. The taste is sweet at first, but becomes slightly astringent and bitter later. What plant is the source of this herbal raw material?

- a. *Mentha piperita*
- b. *Melissa officinalis*
- c. *Thymus serpyllum*

d. *Rubia tinctorum*

e. *Sambucus nigra*

1477. During merchandise analysis a dispensing chemist should reject herbal raw material if it:

a. Contains poisonous plants

- b. Contains other non-poisonous plants
- c. Contains excessive moisture
- d. Has first-degree vermin infestation
- e. Contains other parts of the target plant

1478. During merchandise analysis a dispensing chemist should reject herbal raw material if it:

- a. Contains other parts of the target plant
- b. Has first-degree vermin infestation

c. Contains poisonous plants

- d. Contains excessive moisture
- e. Contains other non-poisonous plants

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- a. Has first-degree vermin infestation
- b. Contains excessive moisture
- c. Contains other non-poisonous plants
- d. Contains other parts of the target plant

e. Contains poisonous plants

1480. During pharmaceutical analysis of a medicinal substance, its reaction with antipyrine (phenazone) was conducted in the presence of dilute hydrochloric acid. What compounds are present there, as indicated by the green coloring that appeared in the process of the analysis?

a. Nitrites

- b. Fluorides
- c. Iodides
- d. Bromides
- e. Sulfates

1481. During pharmaceutical analysis of a medicinal substance, its reaction with antipyrine (phenazone) was conducted in the presence of dilute hydrochloric acid. What compounds are present there, as indicated by the green coloring that appeared in the process of the analysis?

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- b. Fluorides
- c. Bromides
- d. Iodides

e. Nitrites

1483. During quantitative determination of Vicasol (Menadione) by means of cerimetry, the following indicator is used:

- a. Methyl orange
- b. Naphtholbenzein

c. Ferroin

- d. Crystal violet
- e. Methyl red

1484. During quantitative determination of Vicasol (Menadione) by means of cerimetry, the following indicator is used:

- a. Methyl orange
- b. Naphtholbenzein

c. Ferroin

- d. Methyl red
- e. Crystal violet

1485. During quantitative determination of Vicasol (Menadione) by means of cerimetry, the following indicator is used:

- a. Naphtholbenzein
- b. Crystal violet
- c. Methyl red
- d. Methyl orange

e. Ferroin

1486. During quantitative determination of ascorbic acid by means of iodometry the following should be used as an indicator:

a. Starch

- b. Murexide
- c. Diphenylcarbazone
- d. Bromphenol blue
- e. Phenolphthalein

1487. During quantitative determination of ascorbic acid by means of iodometry the following should be used as an indicator:

- a. Bromphenol blue
- b. Phenolphthalein
- c. Murexide
- d. Diphenylcarbazone

e. Starch

1488. During quantitative determination of ascorbic acid by means of iodometry the following should be used as an indicator:

a. Diphenylcarbazone

b. Starch

- c. Phenolphthalein
- d. Bromphenol blue
- e. Murexide

1489. During stock-taking at a pharmacy, a surplus of material goods was discovered. What should the inventory committee do with the discovered surplus?

a. Recording as received

- b. Writing off
- c. Confiscation
- d. Conducting an official investigation
- e. Elimination

1490. During stock-taking at a pharmacy, a surplus of material goods was discovered. What should the inventory committee do with the discovered surplus?

- a. Conducting an official investigation
- b. Elimination
- c. Writing off
- d. Recording as received**

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1491. During stock-taking at a pharmacy, a surplus of material goods was discovered. What should the inventory committee do with the discovered surplus?

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b. Conducting an official investigation

c. Recording as received

d. Confiscation

e. Elimination

1492. During storage, suspension instability manifests itself as:

a. Sedimentation of particles

b. Flocculation of particles

c. Caking of particles

d. Dissolution of particles

e. Change of particles shape

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a. Flocculation of particles

b. Change of particles shape

c. Caking of particles

d. Sedimentation of particles

e. Dissolution of particles

1495. During the microscopy of a herbal raw material, the pharmacist noted its main diagnostic features: calcium oxalate druses in the mesophyll of the leaf and along the veins, simple unicellular hairs, covering stellate hairs with 4-8 thick-walled, porous and often lignified rays at their base, idioblast cells with slime. What herbal raw material can be characterized by the listed diagnostic features?

a. *Digitalis purpurea* folium

b. *Hyoscyamus niger* folium

c. *Gnaphalium uliginosum* herba

d. *Althaea officinalis* herba

e. *Urtica dioica* folium

1496. During the microscopy of a herbal raw material, the pharmacist noted its main diagnostic features: calcium oxalate druses in the mesophyll of the leaf and along the veins, simple unicellular hairs, covering stellate hairs with 4-8 thick-walled, porous and often lignified rays at their base, idioblast cells with slime. What herbal raw material can be characterized by the listed diagnostic features?

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b. *Digitalis purpurea* folium

c. *Gnaphalium uliginosum* herba

d. *Althaea officinalis* herba

e. *Urtica dioica* folium

1497. During the microscopy of a herbal raw material, the pharmacist noted its main diagnostic features: calcium oxalate druses in the mesophyll of the leaf and along the veins, simple unicellular hairs, covering stellate hairs with 4-8 thick-walled, porous and often lignified rays at their base, idioblast cells with slime. What herbal raw material can be characterized by the listed diagnostic features?

a. *Urtica dioica* folium

b. *Gnaphalium uliginosum* herba

c. *Hyoscyamus niger* folium

d. *Digitalis purpurea* folium

e. Althaea officinalis herba

1498. During the transportation of alkaloid drugs, the markings on their packaging were damaged. Qualitative group reactions for alkaloids revealed that the Vitali-Morin test was positive. Therefore, the analyzed drug belongs to the following group of derivatives:

- a. Purine derivatives
- b. Isoquinoline derivatives
- c. Quinuclidine derivatives
- d. Indole derivatives

e. Tropane derivatives

1499. During the transportation of alkaloid drugs, the markings on their packaging were damaged. Qualitative group reactions for alkaloids revealed that the Vitali-Morin test was positive. Therefore, the analyzed drug belongs to the following group of derivatives:

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- a. Quinuclidine derivatives
- b. Purine derivatives

c. Tropane derivatives

- d. Isoquinoline derivatives
- e. Indole derivatives

1501. During the two years of working in his position, the pharmacist proved to be a responsible and efficient specialist. The pharmacy's head manager appointed him to the position of the head of the Extemporaneous Compounding Department. What is this type of personnel movement called?

a. Helical (vertical) rotation

- b. Employee turnover
- c. Recruitment
- d. Mixed rotation
- e. Spiral (horizontal) rotation

1502. During the two years of working in his position, the pharmacist proved to be a responsible and efficient specialist. The pharmacy's head manager appointed him to the position of the head of the Extemporaneous Compounding Department. What is this type of personnel movement called?

- a. Employee turnover
- b. Mixed rotation
- c. Recruitment

d. Helical (vertical) rotation

- e. Spiral (horizontal) rotation

1503. During the two years of working in his position, the pharmacist proved to be a responsible and efficient specialist. The pharmacy's head manager appointed him to the position of the head of the Extemporaneous Compounding Department. What is this type of personnel movement called?

- a. Recruitment

b. Helical (vertical) rotation

- c. Spiral (horizontal) rotation
- d. Employee turnover
- e. Mixed rotation

1504. During visual inspection of a product, the authorized person developed doubts about the quality of the received medicines. What should the authorized person do, to initiate the laboratory testing of the medicine quality?

- a. Send the medicines back to the manufacturer
- b. Send the medicines to the Ministry of Health of Ukraine

c. Send the medicines to a local laboratory of the State Drugs and Medications Control Service

- d. Send the medicines to the nearest compounding pharmacy that employs a dispensing chemist
- e. Send the medicines back to the supplier

1505. During visual inspection of a product, the authorized person developed doubts about the quality of the received medicines. What should the authorized person do, to initiate the laboratory testing of the medicine quality?

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- b. Send the medicines back to the manufacturer
- c. Send the medicines to the nearest compounding pharmacy that employs a dispensing chemist
- d. Send the medicines to the Ministry of Health of Ukraine

e. Send the medicines to a local laboratory of the State Drugs and Medications Control Service

1506. During visual inspection of a product, the authorized person developed doubts about the quality of the received medicines. What should the authorized person do, to initiate the laboratory testing of the medicine quality?

- a. Send the medicines back to the supplier
- b. Send the medicines to the nearest compounding pharmacy that employs a dispensing chemist
- c. Send the medicines back to the manufacturer

d. Send the medicines to a local laboratory of the State Drugs and Medications Control Service

e. Send the medicines to the Ministry of Health of Ukraine

1507. Each medical product that a pharmacy receives should have its quality certificate. How long should these certificates be kept by a pharmacy?

- a. 1 year
- b. 5 years

c. 3 years

- d. 6 years
- e. 2 years

1508. Each medical product that a pharmacy receives should have its quality certificate. How long should these certificates be kept by a pharmacy?

- a. 2 years
- b. 6 years

c. 3 years

- d. 5 years
- e. 1 year

1509. Each medical product that a pharmacy receives should have its quality certificate. How long should these certificates be kept by a pharmacy?

- a. 6 years

b. 3 years

- c. 1 year
- d. 2 years
- e. 5 years

1510. Employees of a pharmaceutical company have formed a group consisting of cycle sport fans. Such group is called:

a. Informal

- b. Formal
- c. Committee
- d. Manufacturing
- e. Commercial

1511. Employees of a pharmaceutical company have formed a group consisting of cycle sport fans. Such group is called:

- a. Formal

b. Informal

- c. Manufacturing
- d. Committee
- e. Commercial

1512. Employees of a pharmaceutical company have formed a group consisting of cycle sport fans. Such group is called:

- a. Manufacturing
- b. Formal
- c. Commercial

d. Informal

- e. Committee

1513. Employees of a wholesale pharmaceutical company have undergone an assessment for their compliance with the requirements of their respective positions. Specify the type of human resources assessment:

a. Concluding

- b. Concurrent
- c. -
- d. Financial
- e. Preliminary

1514. Employees of a wholesale pharmaceutical company have undergone an assessment for their compliance with the requirements of their respective positions. Specify the type of human resources assessment:

- a. Concurrent
- b. Preliminary
- c. -
- d. Financial

e. Concluding

1515. Employees of a wholesale pharmaceutical company have undergone an assessment for their compliance with the requirements of their respective positions. Specify the type of human resources assessment:

- a. Financial

b. Concluding

- c. Concurrent
- d. Preliminary
- e. -

1516. Eradication therapy must be prescribed for a patient with peptic ulcer disease of the duodenum. What antisecretory agent must be included into the eradication therapy scheme?

- a. Almagel

b. Omeprazole

- c. Phosphalugel (Aluminum phosphate)
- d. Ranitidine
- e. Famotidine

1517. Eradication therapy must be prescribed for a patient with peptic ulcer disease of the duodenum. What antisecretory agent must be included into the eradication therapy scheme?

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1518. Eradication therapy must be prescribed for a patient with peptic ulcer disease of the duodenum. What antisecretory agent must be included into the eradication therapy scheme?

- a. Ranitidine
- b. Almagel
- c. Phosphalugel (Aluminum phosphate)

d. Omeprazole

- e. Famotidine

1519. Erythromycin belongs to the following type of antibiotics based on its chemical structure:

- a. Aromatic antibiotics
- b. Polyene antibiotics
- c. beta-lactams
- d. Macrolides**

e. Polypeptides

1520. Erythromycin belongs to the following type of antibiotics based on its chemical structure:

a. Polyene antibiotics

b. Polypeptides

c. Aromatic antibiotics

d. Macrolides

e. beta-lactams

1521. Erythromycin belongs to the following type of antibiotics based on its chemical structure:

a. beta-lactams

b. Polyene antibiotics

c. Aromatic antibiotics

d. Macrolides

e. Polypeptides

1522. Essential oil of a certain plant contains up to 80% of cineole. Specify the herbal raw material that is collected from this plant:

a. Folia Eucalypti

b. Folia Absinthii

c. Folia Menthae piperitae

d. Folia Betulae

e. Folia Melissa

1523. Essential oil of a certain plant contains up to 80% of cineole. Specify the herbal raw material that is collected from this plant:

a. Folia Eucalypti

b. Folia Betulae

c. Folia Absinthii

d. Folia Melissa

e. Folia Menthae piperitae

1524. Essential oil of a certain plant contains up to 80% of cineole. Specify the herbal raw material that is collected from this plant:

a. Folia Menthae piperitae

b. Folia Eucalypti

c. Folia Betulae

d. Folia Melissa

e. Folia Absinthii

1525. Eucalyptus essential oil is used as an antiseptic. What excretory structures of a leaf accumulate this substance?

a. Essential oil cavities

b. Glandular hairs

c. Glandular <<spots>>

d. Secretory cells

e. Essential oil glandules

1526. Eucalyptus essential oil is used as an antiseptic. What excretory structures of a leaf accumulate this substance?

a. Essential oil glandules

b. Glandular <<spots>>

c. Essential oil cavities

d. Glandular hairs

e. Secretory cells

1527. Eucalyptus essential oil is used as an antiseptic. What excretory structures of a leaf accumulate this substance?

a. Glandular <<spots>>

b. Essential oil glandules

c. Essential oil cavities

d. Glandular hairs

e. Secretory cells

1528. Every pharmacy as a business has its income and expenditure operations. What business transaction will result in a summary increase of stocked goods?

- a. Money transfer from a bank to the cash desk
- b. Debt recovery from a person accountable
- c. Goods receipt from the supplier**

- d. Receipt of low-value wearing goods
- e. Issuing money to be accounted for

1529. Every pharmacy as a business has its income and expenditure operations. What business transaction will result in a summary increase of stocked goods?

- a. Money transfer from a bank to the cash desk
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1530. Every pharmacy as a business has its income and expenditure operations. What business transaction will result in a summary increase of stocked goods?

- a. Receipt of low-value wearing goods
- b. Goods receipt from the supplier**
- c. Debt recovery from a person accountable
- d. Issuing money to be accounted for
- e. Money transfer from a bank to the cash desk

1531. Folia Eucalypti is used as an antiseptic, anti-inflammatory, analgesic, and bactericidal agent. What group of bioactive substances is measured for the quality control of Folia Eucalypti?

- a. Essential oils**
- b. Alkaloids
- c. Flavonoids
- d. Cardiac glycosides
- e. Polysaccharides

1532. Folia Eucalypti is used as an antiseptic, anti-inflammatory, analgesic, and bactericidal agent. What group of bioactive substances is measured for the quality control of Folia Eucalypti?

- a. Alkaloids
- b. Polysaccharides
- c. Cardiac glycosides
- d. Essential oils**
- e. Flavonoids

1533. Folia Eucalypti is used as an antiseptic, anti-inflammatory, analgesic, and bactericidal agent. What group of bioactive substances is measured for the quality control of Folia Eucalypti?

- a. Flavonoids
- b. Essential oils**
- c. Alkaloids
- d. Polysaccharides
- e. Cardiac glycosides

1534. For 2 weeks, a pharmacy network has been holding a lottery among its visitors who have purchased over 200 UAH worth of medicines. What set of marketing activities does the pharmacy network use in this case?

- a. Advertising
- b. Public relations
- c. Personal selling
- d. Lobbying
- e. Sales promotion**

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- b. Personal selling

c. Sales promotion

- d. Advertising
- e. Public relations

1536. For better coverage of various markets the Lubnyfarm company sells a portion of its production through its chain of pharmacies, another portion is being sold through distributors, and the third - through pharmacies of another owners. What marketing system of distribution is used by this company?

a. Multichannel

- b. Administered
- c. Corporate
- d. Contractual
- e. Horizontal

1537. For better coverage of various markets the Lubnyfarm company sells a portion of its production through its chain of pharmacies, another portion is being sold through distributors, and the third - through pharmacies of another owners. What marketing system of distribution is used by this company?

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- a. Corporate
- b. Administered

c. Multichannel

- d. Contractual
- e. Horizontal

1539. For rapid analysis of a dosage form with procaine hydrochloride, an analytical chemist performed necessary chemical reactions. What reaction is a variation of Schiff base formation?

a. Lignin test

- b. Iodoform test
- c. <<Silver mirror>> reaction
- d. Hydroxamic reaction
- e. Azo dye formation

1540. For rapid analysis of a dosage form with procaine hydrochloride, an analytical chemist performed necessary chemical reactions. What reaction is a variation of Schiff base formation?

- a. <<Silver mirror>> reaction
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- c. Azo dye formation
- d. Iodoform test

e. Lignin test

1541. For rapid analysis of a dosage form with procaine hydrochloride, an analytical chemist performed necessary chemical reactions. What reaction is a variation of Schiff base formation?

- a. Azo dye formation
- b. Hydroxamic reaction
- c. Iodoform test
- d. <<Silver mirror>> reaction

e. Lignin test

1542. For targeted delivery of medicinal substances, a special dosage form is used. It is formed by a double lipid layer with the cavities, within which the formation sphere is located. What is the name of this dosage form?

- a. OROS tablet

b. Liposome

- c. Infusion therapeutic system
- d. Matrix tablet
- e. Transdermal therapeutic system

1543. For targeted delivery of medicinal substances, a special dosage form is used. It is formed by a double lipid layer with the cavities, within which the formation sphere is located. What is the name of this dosage form?

- a. Transdermal therapeutic system

b. Liposome

- c. Matrix tablet
- d. OROS tablet
- e. Infusion therapeutic system

1544. For the treatment of cystitis, the doctor prescribed the patient a herbal drug. This drug is used in cases of acute and chronic infectious diseases of the kidneys and bladder. What herbal raw material that contains iridoids and xanthonones is a component of this drug?

- a. Equisetum arvense grass

b. Centaurium grass

- c. Centaurea cyanus flowers
- d. Vaccinium vitis-idaea leaves
- e. Birch leaves

1545. For the treatment of cystitis, the doctor prescribed the patient a herbal drug. This drug is used in cases of acute and chronic infectious diseases of the kidneys and bladder. What herbal raw material that contains iridoids and xanthonones is a component of this drug?

- a. Equisetum arvense grass
- b. Birch leaves

c. Centaurium grass

- d. Vaccinium vitis-idaea leaves
- e. Centaurea cyanus flowers

1546. For the treatment of cystitis, the doctor prescribed the patient a herbal drug. This drug is used in cases of acute and chronic infectious diseases of the kidneys and bladder. What herbal raw material that contains iridoids and xanthonones is a component of this drug?

- a. Equisetum arvense grass
- b. Centaurea cyanus flowers
- c. Birch leaves
- d. Vaccinium vitis-idaea leaves

e. Centaurium grass

1547. For treatment of enteric infection a 36-year-old woman was prescribed a nitrofurantoin derivative that is poorly absorbed in the intestine and takes its effect along the intestinal tract. Name this drug:

a. Nifuroxazide

- b. Nalidixic acid
- c. Nitroxoline
- d. Furadonin (Nitrofurantoin)
- e. Furacilin (Nitrofur)

1548. For treatment of enteric infection a 36-year-old woman was prescribed a nitrofurantoin derivative that is poorly absorbed in the intestine and takes its effect along the intestinal tract. Name this drug:

a. Nifuroxazide

- b. Nitroxoline
- c. Furadonin (Nitrofurantoin)
- d. Nalidixic acid
- e. Furacilin (Nitrofur)

1549. For treatment of enteric infection a 36-year-old woman was prescribed a nitrofurantoin derivative that is poorly absorbed in the intestine and takes its effect along the intestinal tract. Name this drug:

- a. Furacilin (Nitrofur)

b. Nifuroxazide

- c. Nitroxoline

- d. Furadonin (Nitrofurantoin)
- e. Nalidixic acid

1550. For what substance its dosing is based on the mass, when preparing liquid dosage forms?

- a. Ammonia spirit-anise spirit drops
- b. Elixir pectoralis

c. 30% hydrogen peroxide (Perhydrol)

- d. Leonurus tincture
- e. 1% citral alcohol solution

1551. For what substance its dosing is based on the mass, when preparing liquid dosage forms?

- a. Elixir pectoralis
- b. 1% citral alcohol solution
- c. Ammonia spirit-anise spirit drops

d. 30% hydrogen peroxide (Perhydrol)

- e. Leonurus tincture

1552. For what substance its dosing is based on the mass, when preparing liquid dosage forms?

- a. Elixir pectoralis
- b. Leonurus tincture

c. 30% hydrogen peroxide (Perhydrol)

- d. Ammonia spirit-anise spirit drops
- e. 1% citral alcohol solution

1553. Functional group analysis is widely used to identify organic medicines. What medicine contains phenolic hydroxyl in its structure?

a. Epinephrine tartrate

- b. Papaverine hydrochloride
- c. Sulfanilamide
- d. Promedol (Trimeperidine)
- e. Phenazepam

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d. Epinephrine tartrate

- e. Promedol (Trimeperidine)

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- b. Sulfanilamide
- c. Promedol (Trimeperidine)

d. Epinephrine tartrate

- e. Phenazepam

1556. Galenical preparations include:

- a. Aerosols
- b. Granules
- c. Spansules

d. Tinctures

- e. Capsules

1557. Galenical preparations include:

- a. Capsules
- b. Granules
- c. Spansules
- d. Aerosols

e. Tinctures

1558. Galenical preparations include:

- a. Granules

b. Tinctures

- c. Capsules
- d. Spansules
- e. Aerosols

1559. Gastroduodenopathies are one of the most common complications of pharmacotherapy during treatment with nonsteroidal anti-inflammatory drugs. What statement correctly describes the cause of their development?

- a. Inhibition of neutrophil aggregation
- b. Inhibition of lipid peroxidation
- c. Disturbed pain impulse conduction

d. Inhibition of prostaglandin synthesis in the mucosa

- e. Inhibition of platelet adhesion and aggregation

1560. Gastroduodenopathies are one of the most common complications of pharmacotherapy during treatment with nonsteroidal anti-inflammatory drugs. What statement correctly describes the cause of their development?

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- b. Inhibition of platelet adhesion and aggregation

c. Inhibition of prostaglandin synthesis in the mucosa

- d. Inhibition of lipid peroxidation
- e. Disturbed pain impulse conduction

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b. Inhibition of prostaglandin synthesis in the mucosa

- c. Inhibition of neutrophil aggregation
- d. Inhibition of lipid peroxidation
- e. Disturbed pain impulse conduction

1562. General sedimentation reagents are used to identify alkaloids in an extract obtained from herbal raw materials. Select from the list one such reagent.

a. Dragendorff reagent

- b. Marquis reagent
- c. Froehde reagent
- d. Vitali-Morin reagent
- e. Erdman reagent

1563. General sedimentation reagents are used to identify alkaloids in an extract obtained from herbal raw materials. Select from the list one such reagent.

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- b. Vitali-Morin reagent
- c. Marquis reagent
- d. Froehde reagent
- e. Erdman reagent

1565. Genetically induced adverse reaction to a certain drug is caused by various enzyme defects. Name this reaction:

a. Idiosyncrasy

- b. Steal syndrome
- c. Rebound effect
- d. Dysbiosis

e. Withdrawal syndrome

1566. Genetically induced adverse reaction to a certain drug is caused by various enzyme defects.

Name this reaction:

a. Rebound effect

b. Steal syndrome

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d. Dysbiosis

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1567. Genetically induced adverse reaction to a certain drug is caused by various enzyme defects.

Name this reaction:

a. Steal syndrome

b. Withdrawal syndrome

c. Rebound effect

d. Idiosyncrasy

e. Dysbiosis

1568. Glucose substance was received for analysis. When heated with copper tartrate reagent (Fehling reagent), it produced a red precipitate, which indicates that its structure contains:

a. Aldehyde group

b. Phenolic hydroxyl

c. Alcoholic hydroxyl

d. Ester group

e. Amide group

1569. Glucose substance was received for analysis. When heated with copper tartrate reagent (Fehling reagent), it produced a red precipitate, which indicates that its structure contains:

a. Amide group

b. Phenolic hydroxyl

c. Alcoholic hydroxyl

d. Aldehyde group

e. Ester group

1570. Glucose substance was received for analysis. When heated with copper tartrate reagent (Fehling reagent), it produced a red precipitate, which indicates that its structure contains:

a. Phenolic hydroxyl

b. Amide group

c. Alcoholic hydroxyl

d. Aldehyde group

e. Ester group

1571. Gum is a polysaccharide substance that contains calcium and magnesium salts of uronic acids and neutral monosaccharides. By solubility arabin, bassorin, and cerasin derivatives can be distinguished. What gum is insoluble in cold water?

a. Cherry

b. Tragacanth

c. Acacia

d. Apricot

e. Plum

1572. Gum is a polysaccharide substance that contains calcium and magnesium salts of uronic acids and neutral monosaccharides. By solubility arabin, bassorin, and cerasin derivatives can be distinguished. What gum is insoluble in cold water?

a. Apricot

b. Cherry

c. Acacia

d. Plum

e. Tragacanth

1573. Gum is a polysaccharide substance that contains calcium and magnesium salts of uronic acids and neutral monosaccharides. By solubility arabin, bassorin, and cerasin derivatives can be distinguished. What gum is insoluble in cold water?

- a. Tragacanth
- b. Plum
- c. Apricot
- d. Acacia

e. Cherry

1574. *Helichrysum arenarium* herbal raw material has anti-inflammatory and choleretic effect. What parts of this plant are harvested?

a. Flowers

- b. Roots
- c. Rhizomes
- d. Fruits
- e. Grass

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- a. Grass
- b. Roots

c. Flowers

- d. Rhizomes
- e. Fruits

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- a. Roots
- b. Rhizomes
- c. Fruits
- d. Grass

e. Flowers

1577. Hemodes and Neohemodes preparations are used as blood plasma substitutes. What is their active substance?

- a. Menthol

b. Polyvinylpyrrolidone

- c. Midantan (Amantadine)
- d. Thiopental sodium
- e. Piracetam

1578. Hemodes and Neohemodes preparations are used as blood plasma substitutes. What is their active substance?

- a. Midantan (Amantadine)
- b. Menthol
- c. Thiopental sodium
- d. Piracetam

e. Polyvinylpyrrolidone

1579. Hemodes and Neohemodes preparations are used as blood plasma substitutes. What is their active substance?

- a. Midantan (Amantadine)
- b. Thiopental sodium

c. Polyvinylpyrrolidone

- d. Menthol
- e. Piracetam

1580. Herbal mixtures contain several types of comminuted or non-comminuted herbal raw material. What stage is **NOT** a part of herbal mixture production?

a. Extraction

- b. Packing
- c. Sifting
- d. Mixing
- e. Marking

1581. Herbal mixtures contain several types of comminuted or non-comminuted herbal raw material.

What stage is textbfNOT a part of herbal mixture production?

a. Extraction

- b. Sifting
- c. Marking
- d. Packing
- e. Mixing

1582. Herbal mixtures contain several types of comminuted or non-comminuted herbal raw material. What stage is textbfNOT a part of herbal mixture production?

- a. Sifting
- b. Mixing

c. Extraction

- d. Packing
- e. Marking

1583. Herbal raw material quality depends on the period when it was harvested. Subterranean organs - roots, rhizomes, subterranean tubers - should be harvested:

- a. At the end of the bloom
- b. Before the bloom
- c. During the period of vegetation

d. In early spring or autumn

- e. During the bloom

1584. Herbal raw material quality depends on the period when it was harvested. Subterranean organs - roots, rhizomes, subterranean tubers - should be harvested:

- a. Before the bloom
- b. In early spring or autumn**
- c. During the bloom
- d. During the period of vegetation
- e. At the end of the bloom

1585. Hierarchic structure of the Agapetus pharmacy management foresees that authority is being passed on directly from the pharmacy manager to the employees. Specify this type of authority:

- a. Functional
- b. Divisional
- c. Line and staff

d. Line

- e. Matrix

1586. Hierarchic structure of the Agapetus pharmacy management foresees that authority is being passed on directly from the pharmacy manager to the employees. Specify this type of authority:

- a. Functional
- b. Line and staff

c. Line

- d. Divisional
- e. Matrix

1587. Hierarchic structure of the Agapetus pharmacy management foresees that authority is being passed on directly from the pharmacy manager to the employees. Specify this type of authority:

- a. Line and staff

b. Line

- c. Functional
- d. Matrix
- e. Divisional

1588. Highly convincing approach to informing the population about the company and its products, commercial promotion of high use value of the goods and proper conduct of business by the company, actions intended to prompt purchase of goods by both active and potential customers are all characteristic of:

- a. Communications
- b. Supply
- c. Marketing

d. Trademark

e. Advertisement

1589. Highly convincing approach to informing the population about the company and its products, commercial promotion of high use value of the goods and proper conduct of business by the company, actions intended to prompt purchase of goods by both active and potential customers are all characteristic of:

- a. Communications
- b. Trademark
- c. Marketing

d. Advertisement

e. Supply

1590. Highly convincing approach to informing the population about the company and its products, commercial promotion of high use value of the goods and proper conduct of business by the company, actions intended to prompt purchase of goods by both active and potential customers are all characteristic of:

- a. Trademark
- b. Marketing
- c. Supply

d. Advertisement

e. Communications

1591. How are pharmacies classified in Ukraine based on their commercial and manufacturing functions?

- a. Pharmacies with centralized and decentralized accounting
- b. Compounding and retail pharmacies**
- c. Retail and hospital pharmacies
- d. Self-financing pharmacies and pharmacies financed from the state budget
- e. State, community-owned, and private pharmacies

1592. How are pharmacies classified in Ukraine based on their commercial and manufacturing functions?

- a. Self-financing pharmacies and pharmacies financed from the state budget
- b. State, community-owned, and private pharmacies

c. Compounding and retail pharmacies

- d. Pharmacies with centralized and decentralized accounting
- e. Retail and hospital pharmacies

1593. How are pharmacies classified in Ukraine based on their commercial and manufacturing functions?

- a. State, community-owned, and private pharmacies
- b. Self-financing pharmacies and pharmacies financed from the state budget
- c. Pharmacies with centralized and decentralized accounting
- d. Retail and hospital pharmacies

e. Compounding and retail pharmacies

1594. How long can vasoconstrictors for symptomatic treatment of rhinitis be used?

- a. 1 month
- b. 5 weeks
- c. 2 weeks
- d. 3 weeks

e. 5-7 days

1595. How long can vasoconstrictors for symptomatic treatment of rhinitis be used?

- a. 2 weeks
- b. 5 weeks
- c. 3 weeks
- d. 1 month

e. 5-7 days

1596. How long can vasoconstrictors for symptomatic treatment of rhinitis be used?

- a. 3 weeks

- b. 1 month
- c. 2 weeks
- d. 5 weeks

e. 5-7 days

1597. How long must a pharmacy keep its logbooks with the records about the balance of narcotic drugs, psychotropic substances, and precursors?

a. 5 years

- b. 7 years after the current one
- c. 3 years
- d. 1 year after the current one
- e. 2 years after the current one

1598. How long must a pharmacy keep its logbooks with the records about the balance of narcotic drugs, psychotropic substances, and precursors?

a. 2 years after the current one

b. 5 years

- c. 3 years
- d. 7 years after the current one
- e. 1 year after the current one

1599. How long must a pharmacy keep its logbooks with the records about the balance of narcotic drugs, psychotropic substances, and precursors?

- a. 3 years
- b. 1 year after the current one

c. 5 years

- d. 7 years after the current one
- e. 2 years after the current one

1600. How long must a pharmacy keep the documents that confirm the fact of sale of medicines and medical products?

a. 3 years

- b. 3 months
- c. 5 years
- d. 10 years
- e. 1 year

1601. How long must a pharmacy keep the documents that confirm the fact of sale of medicines and medical products?

a. 10 years

b. 3 years

- c. 5 years
- d. 1 year
- e. 3 months

1602. How long should a retail business that deals in medicines keep the quality certificates issued by drug manufacturers?

a. 1 year

b. 3 years

- c. 2 years
- d. 6 months
- e. 5 years

1603. How long should a retail business that deals in medicines keep the quality certificates issued by drug manufacturers?

- a. 2 years
- b. 1 year
- c. 5 years

d. 3 years

e. 6 months

1604. How long should a retail business that deals in medicines keep the quality certificates issued by drug manufacturers?

- a. 2 years
- b. 1 year
- c. 5 years
- d. 6 months

e. 3 years

1605. How long should the pharmacy keep a receipt for Morphin-ZN tablets, package №50?

a. Five years, not counting the current one

- b. One year, not counting the current one
- c. One month, not counting the current one
- d. The receipt form is not kept by the pharmacy
- e. Three years, not counting the current one

1606. How long should the pharmacy keep a receipt for Morphin-ZN tablets, package №50?

a. One year, not counting the current one

b. Five years, not counting the current one

- c. One month, not counting the current one
- d. Three years, not counting the current one
- e. The receipt form is not kept by the pharmacy

1607. How long should the pharmacy keep a receipt for Morphin-ZN tablets, package №50?

- a. Three years, not counting the current one
- b. The receipt form is not kept by the pharmacy
- c. One year, not counting the current one

d. Five years, not counting the current one

e. One month, not counting the current one

1608. How many mL of nitrofurazone (furacilin) is it necessary to measure out for preparation of 250 mL of nitrofurazone solution (1:5000)?

- a. 0.25
- b. 0.025

c. 0.05

- d. 0.5
- e. 5.0

1609. How many mL of nitrofurazone (furacilin) is it necessary to measure out for preparation of 250 mL of nitrofurazone solution (1:5000)?

a. 0.5

b. 0.05

- c. 0.025
- d. 5.0
- e. 0.25

1610. How many mL of nitrofurazone (furacilin) is it necessary to measure out for preparation of 250 mL of nitrofurazone solution (1:5000)?

- a. 5.0
- b. 0.025

c. 0.05

- d. 0.25
- e. 0.5

1611. How often should a pharmacy make an inventory of its fixed assets?

- a. At least once in a quarter
- b. At least twice a year

c. Once a year

- d. Once every three years
- e. At least thrice a year

1612. How often should a pharmacy make an inventory of its fixed assets?

- a. At least twice a year
- b. At least thrice a year

c. Once a year

- d. Once every three years

e. At least once in a quarter

1613. How often should a pharmacy make an inventory of its fixed assets?

a. Once every three years

b. At least thrice a year

c. At least twice a year

d. At least once in a quarter

e. Once a year

1614. How should the rectal ointments be applied?

a. Apply to the conjunctival mucosa

b. Apply to the nasal mucosa

c. Applied to the external genitalia

d. Apply to the affected area of the anus

e. Apply to the skin

1615. How should the rectal ointments be applied?

a. Apply to the skin

b. Apply to the affected area of the anus

c. Applied to the external genitalia

d. Apply to the conjunctival mucosa

e. Apply to the nasal mucosa

1616. How should the rectal ointments be applied?

a. Apply to the skin

b. Apply to the conjunctival mucosa

c. Apply to the nasal mucosa

d. Apply to the affected area of the anus

e. Applied to the external genitalia

1617. How should the tablets of pancreatin enzyme preparation be taken?

a. During eating

b. 1 hour after a meal

c. 1 hour before a meal

d. Regardless of food intake

e. 2 hours before a meal

1618. How should the tablets of pancreatin enzyme preparation be taken?

a. 1 hour before a meal

b. Regardless of food intake

c. 1 hour after a meal

d. During eating

e. 2 hours before a meal

1619. How should the tablets of pancreatin enzyme preparation be taken?

a. 2 hours before a meal

b. Regardless of food intake

c. 1 hour before a meal

d. During eating

e. 1 hour after a meal

1620. Hydrogen peroxide solution can be bought in different concentrations in a pharmacy. What concentration should be offered to a patient, if the patient's receipt does not specify hydrogen peroxide concentration?

a. 3%

b. 20%

c. 30%

d. 2%

e. 10%

1621. Hydrogen peroxide solution can be bought in different concentrations in a pharmacy. What concentration should be offered to a patient, if the patient's receipt does not specify hydrogen peroxide concentration?

a. 10%

- b. 2%
- c. 20%
- d. 3%**
- e. 30%

1622. Hydrogen peroxide solution can be bought in different concentrations in a pharmacy. What concentration should be offered to a patient, if the patient's receipt does not specify hydrogen peroxide concentration?

- a. 30%
- b. 20%
- c. 10%
- d. 2%
- e. 3%**

1623. Hydrogen sulfide is being produced in the process of dry pyrolysis of a certain sulfanilamide drug. Name this drug:

- a. Sulfacil sodium
- b. Norsulfazole**
- c. Soluble streptocide
- d. Streptocide
- e. Sulfadimezinum (Sulfadimine)

1624. Hydrogen sulfide is being produced in the process of dry pyrolysis of a certain sulfanilamide drug. Name this drug:

- a. Sulfacil sodium
- b. Streptocide
- c. Norsulfazole**
- d. Soluble streptocide
- e. Sulfadimezinum (Sulfadimine)

1625. Hydrogen sulfide is being produced in the process of dry pyrolysis of a certain sulfanilamide drug. Name this drug:

- a. Sulfacil sodium
- b. Streptocide
- c. Sulfadimezinum (Sulfadimine)
- d. Soluble streptocide
- e. Norsulfazole**

1626. Hyoscyamine and scopolamine are typically contained in the plants of the following family:

- a. Apocynaceae
- b. Solanaceae**
- c. Asteraceae
- d. Papaveraceae
- e. Fabaceae

1627. Hyoscyamine and scopolamine are typically contained in the plants of the following family:

- a. Asteraceae
- b. Solanaceae**
- c. Fabaceae
- d. Papaveraceae
- e. Apocynaceae

1628. Hyoscyamine and scopolamine are typically contained in the plants of the following family:

- a. Fabaceae
- b. Asteraceae
- c. Papaveraceae
- d. Solanaceae**
- e. Apocynaceae

1629. Hypericum perforatum grass contains hypericin. What is the pharmacological effect of this substance?

- a. Analgesic
- b. Antiasthmatic

c. Antidepressant

d. Expectorant

e. Anticonvulsant

1630. Hypericum perforatum grass contains hypericin. What is the pharmacological effect of this substance?

a. Analgesic

b. Anticonvulsant

c. Expectorant

d. Antiasthmatic

e. Antidepressant

1631. Hypericum perforatum grass contains hypericin. What is the pharmacological effect of this substance?

a. Antiasthmatic

b. Analgesic

c. Anticonvulsant

d. Expectorant

e. Antidepressant

1632. Identification of organic medicinal substances requires the analysis of their functional groups. To identify medicinal substances that are benzoates, an analytical chemist should use:

a. Potassium hydroxide solution

b. Iron(III) chloride solution

c. Sodium acetate solution

d. Ammonium chloride solution

e. Sodium bicarbonate solution

1633. Identification of organic medicinal substances requires the analysis of their functional groups. To identify medicinal substances that are benzoates, an analytical chemist should use:

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c. Sodium bicarbonate solution

d. Sodium acetate solution

e. Iron(III) chloride solution

1634. Identification of organic medicinal substances requires the analysis of their functional groups. To identify medicinal substances that are benzoates, an analytical chemist should use:

a. Sodium acetate solution

b. Potassium hydroxide solution

c. Ammonium chloride solution

d. Iron(III) chloride solution

e. Sodium bicarbonate solution

1635. Identification of potassium iodide requires performing an oxidation reaction in acid medium, which produces free iodine that colors chloroform layer. What reagent is used for such a reaction?

a. Sodium nitrite

b. Ammonium oxalate

c. Barium chloride

d. Silver nitrate

e. Sodium carbonate

1636. Identification of potassium iodide requires performing an oxidation reaction in acid medium, which produces free iodine that colors chloroform layer. What reagent is used for such a reaction?

a. Silver nitrate

b. Sodium carbonate

c. Ammonium oxalate

d. Sodium nitrite

e. Barium chloride

1637. Identification of potassium iodide requires performing an oxidation reaction in acid medium, which produces free iodine that colors chloroform layer. What reagent is used for such a reaction?

a. Sodium carbonate

- b. Silver nitrate
- c. Sodium nitrite**
- d. Ammonium oxalate
- e. Barium chloride

1638. If a pharmacy plans to temporarily close for repairs or re-equipment, the State Service of Ukraine on Medicines and Drugs Control must be notified in advance no later than:

- a. 10 working days before the closure**
- b. Notification is optional
- c. 1 month before the closure
- d. 20 working days before the closure
- e. 3 months before the closure

1639. If a pharmacy plans to temporarily close for repairs or re-equipment, the State Service of Ukraine on Medicines and Drugs Control must be notified in advance no later than:

- a. Notification is optional
- b. 10 working days before the closure**
- c. 20 working days before the closure
- d. 1 month before the closure
- e. 3 months before the closure

1640. If a pharmacy plans to temporarily close for repairs or re-equipment, the State Service of Ukraine on Medicines and Drugs Control must be notified in advance no later than:

- a. Notification is optional
- b. 10 working days before the closure**
- c. 20 working days before the closure
- d. 3 months before the closure
- e. 1 month before the closure

1641. If potassium salts are put into the colorless flame of a gas burner, the flame colors:

- a. Brick-red
- b. Violet**
- c. Yellow
- d. Green
- e. Red

1642. If potassium salts are put into the colorless flame of a gas burner, the flame colors:

- a. Red
- b. Violet**
- c. Yellow
- d. Green
- e. Brick-red

1643. If potassium salts are put into the colorless flame of a gas burner, the flame colors:

- a. Red
- b. Brick-red
- c. Green
- d. Violet**
- e. Yellow

1644. If vehicle is not specified, an eye ointment should be prepared with the following sterile vehicle:

- a. 10 parts of anhydrous lanolin - 90 parts of vaseline For Eye Ointments**
- b. 30 parts of lanolin - 70 parts of vaseline
- c. Lanolin: vaseline - 1:1
- d. Vaseline For Eye Ointments
- e. 40 parts of anhydrous lanolin - 60 parts of vaseline For Eye Ointments

1645. If vehicle is not specified, an eye ointment should be prepared with the following sterile vehicle:

- a. Lanolin: vaseline - 1:1
- b. 40 parts of anhydrous lanolin - 60 parts of vaseline For Eye Ointments
- c. Vaseline For Eye Ointments
- d. 30 parts of lanolin - 70 parts of vaseline
- e. 10 parts of anhydrous lanolin - 90 parts of vaseline For Eye Ointments**

1646. If vehicle is not specified, an eye ointment should be prepared with the following sterile vehicle:

- a. Vaseline For Eye Ointments
- b. 40 parts of anhydrous lanolin - 60 parts of vaseline For Eye Ointments
- c. 10 parts of anhydrous lanolin - 90 parts of vaseline For Eye Ointments**
- d. Lanolin: vaseline - 1:1
- e. 30 parts of lanolin - 70 parts of vaseline

1647. In Ukraine the auditor position eligibility requires the candidate to be a Ukrainian citizen and have the qualification certificate for work as an auditor within the Ukraine's territory. The certificate is effective for:

- a. 5 years**
- b. Indefinitely
- c. 1 years
- d. 3 years
- e. 2 years

1648. In Ukraine the auditor position eligibility requires the candidate to be a Ukrainian citizen and have the qualification certificate for work as an auditor within the Ukraine's territory. The certificate is effective for:

- a. 3 years
- b. 2 years
- c. 5 years**
- d. Indefinitely
- e. 1 years

1649. In Ukraine the auditor position eligibility requires the candidate to be a Ukrainian citizen and have the qualification certificate for work as an auditor within the Ukraine's territory. The certificate is effective for:

- a. Indefinitely
- b. 5 years**
- c. 3 years
- d. 1 years
- e. 2 years

1650. In a pharmacy each employee is subordinate to only one manager, who makes all the management decisions. What type of organizational structure of the pharmacy's management is it?

- a. Linear**
- b. Functional
- c. Matrix
- d. Productive
- e. Adaptive

1651. In a pharmacy each employee is subordinate to only one manager, who makes all the management decisions. What type of organizational structure of the pharmacy's management is it?

- a. Matrix
- b. Functional
- c. Adaptive
- d. Productive
- e. Linear**

1652. In a pharmacy each employee is subordinate to only one manager, who makes all the management decisions. What type of organizational structure of the pharmacy's management is it?

- a. Matrix
- b. Functional
- c. Productive
- d. Linear**
- e. Adaptive

1653. In his line of work a dispensing chemist tries to satisfy a number of contradictory requirements, which has resulted in emotional overload, stress, and self-doubt. What type of conflict has arisen in this case?

- a. Intrapersonal**

- b. -
- c. Individual vs. group
- d. Interorganizational
- e. Intergroup

1654. In his line of work a dispensing chemist tries to satisfy a number of contradictory requirements, which has resulted in emotional overload, stress, and self-doubt. What type of conflict has arisen in this case?

a. Intrapersonal

- b. Individual vs. group
- c. Intergroup
- d. -
- e. Interorganizational

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- a. Interorganizational
- b. Individual vs. group

c. Intrapersonal

- d. Intergroup
- e. -

1656. In his management policy, the head manager of the <<Health Formula>> pharmacy actively uses planning, material incentives and sanctions, pricing, and distribution of profits and capital investments. These means and approaches belong to the following group of management methods:

a. Organizational management methods

b. Economic management methods

- c. Legal management methods
- d. Indirect control methods
- e. Psychosocial management methods

1657. In his management policy, the head manager of the <<Health Formula>> pharmacy actively uses planning, material incentives and sanctions, pricing, and distribution of profits and capital investments. These means and approaches belong to the following group of management methods:

- a. Organizational management methods
- b. Indirect control methods
- c. Psychosocial management methods

d. Economic management methods

e. Legal management methods

1658. In his management policy, the head manager of the <<Health Formula>> pharmacy actively uses planning, material incentives and sanctions, pricing, and distribution of profits and capital investments. These means and approaches belong to the following group of management methods:

a. Psychosocial management methods

b. Economic management methods

- c. Legal management methods
- d. Indirect control methods
- e. Organizational management methods

1659. In its work, a pharmaceutical company combines ensuring its own profitability with meeting the needs of consumers and raising the standard of living in the society. What marketing management concept has the company chosen?

a. Socio-ethical marketing

- b. Intensification of commercial efforts
- c. Marketing
- d. Production improvement
- e. Product improvement

1660. In its work, a pharmaceutical company combines ensuring its own profitability with meeting the needs of consumers and raising the standard of living in the society. What marketing management concept has the company chosen?

- a. Product improvement
- b. Marketing
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d. Socio-ethical marketing

- e. Production improvement

1661. In its work, a pharmaceutical company combines ensuring its own profitability with meeting the needs of consumers and raising the standard of living in the society. What marketing management concept has the company chosen?

- a. Production improvement
- b. Intensification of commercial efforts

c. Socio-ethical marketing

- d. Marketing
- e. Product improvement

1662. In production of extraction drugs with maximum purity level, the extracts are purified using the method of liquid-liquid extraction, which is the process of:

- a. Dialysis
- b. Heating the extract
- c. Electrolyte action
- d. Ultrasound exposure

e. Extraction from one liquid using another

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- a. Heating the extract

b. Extraction from one liquid using another

- c. Electrolyte action
- d. Ultrasound exposure
- e. Dialysis

1665. In production of phytodrugs, the extractant that remains in the herbal raw material is removed and used again in manufacturing. Name this process:

- a. Lyophilization
- b. Extraction
- c. Rectification

d. Recuperation

- e. Sublimation

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1668. In the course of its development a pharmaceutical company forms its culture. Culture of a pharmaceutical company is typically based on:

- a. Values, traditions, and behavioral norms characteristic of company employees
- b. License agreement
- c. Relevant pharmaceutical practices
- d. Specifics of manufacturing process
- e. Legislation in force

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1671. In the course of the pharmacotherapy for exacerbation of chronic bronchitis, the patient developed dyspeptic disorders, photodermatitis, and disturbed hepatic function. Which of the prescribed drugs could have caused these signs?

- a. Ambroxol
- b. Codeine phosphate
- c. Doxycycline
- d. Ascorbic acid
- e. Acetylcysteine

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1674. In the process of drug identification, an analytical chemist of the State Inspection for Quality Control of Medicines performs ninhydrin test. What drug is being identified?

- a. Nitrofurantoin
- b. Sulfamethoxazole
- c. Retinol acetate
- d. Resorcinol
- e. Tyrosine

1675. In the process of drug identification, an analytical chemist of the State Inspection for Quality Control of Medicines performs ninhydrin test. What drug is being identified?

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- c. Nitrofurantoin
- d. Retinol acetate
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1677. In the process of industrial production of rectal suppositories, certain substances insoluble both in water and suppository vehicle are introduced into this dosage form. Specify the optimal way to introduce these substances:

a. Introduce the substances as a suspension

- b. Dissolve the substances in the water heated to 45 °C
- c. Melt all of fatty vehicle and dissolve the substances there
- d. Introduce the substances as an emulsion
- e. Melt a part of fatty vehicle and dissolve the substances there

1678. In the process of industrial production of rectal suppositories, certain substances insoluble both in water and suppository vehicle are introduced into this dosage form. Specify the optimal way to introduce these substances:

- a. Introduce the substances as an emulsion
- b. Melt a part of fatty vehicle and dissolve the substances there
- c. Melt all of fatty vehicle and dissolve the substances there

d. Introduce the substances as a suspension

- e. Dissolve the substances in the water heated to 45 °C

1679. In the process of industrial production of rectal suppositories, certain substances insoluble both in water and suppository vehicle are introduced into this dosage form. Specify the optimal way to introduce these substances:

- a. Melt a part of fatty vehicle and dissolve the substances there
- b. Dissolve the substances in the water heated to 45 °C
- c. Introduce the substances as an emulsion

d. Introduce the substances as a suspension

- e. Melt all of fatty vehicle and dissolve the substances there

1680. In the process of industrial production, certain adjuvants are included in the soft dosage forms as pH regulators. Name these adjuvants:

- a. Benzalkonium chloride, benzyl alcohol

b. Citric acid, sodium phosphate salts

- c. Glycerine, dimethyl sulfoxide
- d. Sodium lauryl sulfate, tween emulsifiers
- e. Paraffin, spermaceti

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1683. In the process of inpatient treatment of bronchial asthma, the patient was prescribed Euphylline (Theophylline) intravenously. What side effect of this drug must be managed first?

a. Cardiotoxicity

b. Nephrotoxicity

c. Hematotoxicity

d. Chondrotoxicity

e. Hepatotoxicity

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1686. In the process of isoniazid identification a pharmacy analyst thoroughly boiled the substance with 2,4-dinitrochlorobenzene. The substance turned yellow. After adding alkaline solution the substance turned first violet and then brownish-red. As the result of this reaction the following aldehyde derivative is produced:

a. Gluconic

b. Glutamic

c. Glyoxylic

d. Glutaconic

e. Hexanic

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d. Gluconic

e. Glutamic

1689. In the process of making an aqueous solution of protargol the pharmacist has used the following technology:

a. Added the powder onto the water surface and waited until complete dissolution

b. Dissolved during comminution

c. Dissolved in purified water in a vial for dispensing

d. Dissolved in warm water

e. Dissolved in cold water

1690. In the process of making an aqueous solution of protargol the pharmacist has used the following technology:

a. Dissolved during comminution

b. Dissolved in warm water

c. Added the powder onto the water surface and waited until complete dissolution

d. Dissolved in cold water

e. Dissolved in purified water in a vial for dispensing

1691. In the process of making an aqueous solution of protargol the pharmacist has used the following technology:

a. Dissolved in purified water in a vial for dispensing

b. Dissolved in cold water

c. Dissolved during comminution

d. Added the powder onto the water surface and waited until complete dissolution

e. Dissolved in warm water

1692. In the process of packing and transporting, herbal raw material often becomes partially comminuted or even powdered. Excessive comminution has negative effect on the herbal raw material appearance and its quality. What tool is used to separate these excessively comminuted particles from the rest of the herbal raw material?

a. Sieve

b. Mortars

c. Tweezers

d. Filter

e. Scalpel

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1695. In the process of pharmaceutical company entering an offshore market the traditions and customs, religion, system of values, and education level of the local population were analyzed. What factors of international marketing environment were researched?

a. Sociocultural

b. Technological

c. Political

d. Economical

e. Legal

1696. In the process of pharmaceutical company entering an offshore market the traditions and customs, religion, system of values, and education level of the local population were analyzed. What factors of international marketing environment were researched?

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- b. Economical
- c. Legal

d. Sociocultural

- e. Political

1698. In the process of phytochemical examination of buckthorn bark, the reaction with alkaline solution resulted in red coloring, which indicates the presence of the following:

- a. Alkaloids
- b. Flavonoids
- c. Saponins

d. Anthracene derivatives

- e. Slime

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1701. In the process of price formation, a pharmaceutical company takes into account both internal and external factors. What factor is an external one?

a. State regulation of price formation

- b. Marketing goals of the company
- c. The stage of the product life cycle
- d. Manufacturing costs
- e. Marketing strategy of the company

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- e. Marketing goals of the company

1703. In what capacity is benzyl alcohol used as a component of solutions for parenteral administration?

- a. Antioxidant
- b. pH regulator
- c. Isotonicity regulator

d. Antimicrobial preservative

- e. Buffer solution

1704. In what capacity is benzyl alcohol used as a component of solutions for parenteral administration?

- a. Buffer solution
- b. Antioxidant
- c. pH regulator

d. Antimicrobial preservative

- e. Isotonicity regulator

1705. In what capacity is benzyl alcohol used as a component of solutions for parenteral administration?

- a. Isotonicity regulator
- b. Antioxidant

c. Antimicrobial preservative

- d. pH regulator
- e. Buffer solution

1706. In what order must alcohol-containing solutions be added into aqueous solutions during the preparation of liquid dosage forms?

- a. In any order

b. In the order of increasing alcohol concentration

- c. In the order of increasing volume of alcohol-containing solutions
- d. First into the vial for dispensing
- e. In the order of decreasing alcohol concentration

1707. In what order must alcohol-containing solutions be added into aqueous solutions during the preparation of liquid dosage forms?

- a. In the order of decreasing alcohol concentration

b. In the order of increasing alcohol concentration

- c. In any order
- d. First into the vial for dispensing
- e. In the order of increasing volume of alcohol-containing solutions

1708. In what order must alcohol-containing solutions be added into aqueous solutions during the preparation of liquid dosage forms?

- a. In the order of decreasing alcohol concentration
- b. First into the vial for dispensing
- c. In any order
- d. In the order of increasing volume of alcohol-containing solutions

e. In the order of increasing alcohol concentration

1709. Incoming medicines inspection is performed by an authorized employee. What is textbfNOT a part of the responsibilities of this person?

- a. -
- b. To keep a roster of incoming medicines
- c. To check the pharmacy stock for low-quality or fake medicines
- d. To draw up conclusions regarding inspection of incoming medicines

e. To draw up orders for medicines and medical products, to conclude sales contracts

1710. Incoming medicines inspection is performed by an authorized employee. What is textbfNOT a part of the responsibilities of this person?

- a. To draw up conclusions regarding inspection of incoming medicines
- b. -

c. To draw up orders for medicines and medical products, to conclude sales contracts

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1711. Incoming medicines inspection is performed by an authorized employee. What is textbfNOT a part of the responsibilities of this person?

- a. To draw up conclusions regarding inspection of incoming medicines
- b. To check the pharmacy stock for low-quality or fake medicines

c. To draw up orders for medicines and medical products, to conclude sales contracts

- d. -
- e. To keep a roster of incoming medicines

1712. Indometacine is a nonsteroidal antiinflammatory drug. A condensed heterocyclic system is

contained within the structure of this drug. What cycles compose the system?

a. Pyrrole and benzene

- b. Benzene and pyridine
- c. Benzene and thiazole
- d. Pyrimidine and imidazole
- e. Two 4-oxycoumarin residues

1713. Indometacine is a nonsteroidal antiinflammatory drug. A condensed heterocyclic system is contained within the structure of this drug. What cycles compose the system?

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a. Benzene and pyridine

b. Two 4-oxycoumarin residues

c. Benzene and thiazole

d. Pyrimidine and imidazole

e. Pyrrole and benzene

1715. Information on the pharmacy's actual stock of narcotic drugs, psychotropic substances, and precursors must be checked against the balance records made in the relevant logbook. How often must it be done?

a. Monthly

b. Annually

c. Daily

d. -

e. Quarterly

1716. Information on the pharmacy's actual stock of narcotic drugs, psychotropic substances, and precursors must be checked against the balance records made in the relevant logbook. How often must it be done?

a. Monthly

b. Quarterly

c. Annually

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e. -

1717. Information on the pharmacy's actual stock of narcotic drugs, psychotropic substances, and precursors must be checked against the balance records made in the relevant logbook. How often must it be done?

a. -

b. Quarterly

c. Annually

d. Monthly

e. Daily

1718. Infuser apparatus is used by a pharmacy to prepare:

a. Emulsions

b. Infusion solutions

c. Suspensions

d. Ointments

e. Infusions and decoctions

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a. Ointments

b. Emulsions

c. Infusions and decoctions

d. Suspensions

e. Infusion solutions

1721. Infusion of Althaea roots is being prepared for a patient. What pattern of infusion should be chosen in this case?

a. 30 minutes at room temperature

b. 30 minutes of water bath infusion and 10 minutes of cooling at room temperature

c. 15 minutes of water bath infusion and 45 minutes of cooling at room temperature

d. 30 minutes of water bath infusion and immediate filtering without cooling

e. 60 minutes at room temperature

1722. Infusion of Althaea roots is being prepared for a patient. What pattern of infusion should be chosen in this case?

a. 15 minutes of water bath infusion and 45 minutes of cooling at room temperature

b. 30 minutes at room temperature

c. 30 minutes of water bath infusion and immediate filtering without cooling

d. 30 minutes of water bath infusion and 10 minutes of cooling at room temperature

e. 60 minutes at room temperature

1723. Infusion of Althaea roots is being prepared for a patient. What pattern of infusion should be chosen in this case?

a. 30 minutes of water bath infusion and immediate filtering without cooling

b. 15 minutes of water bath infusion and 45 minutes of cooling at room temperature

c. 60 minutes at room temperature

d. 30 minutes of water bath infusion and 10 minutes of cooling at room temperature

e. 30 minutes at room temperature

1724. Infusions of herbal raw material rich in essential oils should be:

a. Prepared in a tightly closed vessel

b. Immediately filtered

c. Acidated with hydrochloric acid

d. Infused cold

e. Filtered without wringing of the solid residue

1725. Infusions of herbal raw material rich in essential oils should be:

a. Acidated with hydrochloric acid

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c. Immediately filtered

d. Filtered without wringing of the solid residue

e. Prepared in a tightly closed vessel

1727. Injection solutions are being produced in an ampoule workshop. Injection solution of ascorbic acid belongs to the following group of solutions:

a. Easily oxidized solutions

b. Solutions of the salts formed by weak bases and strong acids

c. Solutions of the substances that cannot be thermally sterilized

d. Solutions of the salts formed by strong bases and weak acids

e. Solutions of the substances that need special purification

1728. Injection solutions are being produced in an ampoule workshop. Injection solution of ascorbic acid belongs to the following group of solutions:

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- d. Solutions of the substances that cannot be thermally sterilized
- e. Solutions of the salts formed by strong bases and weak acids

1730. Inorganic medicines are identified by their cations and anions. What should be used by an analytical chemist for identification of medicinal substances that contain potassium?

a. Tartaric acid solution

- b. Benzoic acid solution
- c. Nitric acid solution
- d. Acetic acid solution
- e. Hydrochloric acid solution

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1732. Inorganic medicines are identified by their cations and anions. What should be used by an analytical chemist for identification of medicinal substances that contain potassium?

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- b. Hydrochloric acid solution

c. Tartaric acid solution

- d. Acetic acid solution
- e. Benzoic acid solution

1733. Inulin improves digestion and has a positive effect on carbohydrate metabolism. What plant is used as a source of inulin?

a. Helianthus tuberosus

- b. Althaea officinalis
- c. Hypericum maculatum
- d. Astragalus dasyanthus
- e. Brassica juncea

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- b. Astragalus dasyanthus

c. Helianthus tuberosus

- d. Brassica juncea
- e. Hypericum maculatum

1736. Iridoids can be divided into four main groups. What is the common name for the iridoids

obtained from the Valerianaceae family plants?

a. Valepotriates

- b. Complex iridoid alkaloids
- c. Cyclopentane iridoids
- d. Common iridoids
- e. Secoiridoids

1737. Iridoids can be divided into four main groups. What is the common name for the iridoids obtained from the Valerianaceae family plants?

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- b. Secoiridoids

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- c. Common iridoids
- d. Secoiridoids
- e. Complex iridoid alkaloids

1739. Lately the Phytopharm pharmaceutical company has been forced to decrease its production volume and range of goods. Not only does the company head manager demonstrate no managerial abilities, but he also appears to be completely disinterested in the running of the business and executes no control over it. Determine the leadership type of the head manager in this case:

- a. Autocratic
- b. Democratic
- c. Authoritarian

d. Liberal

- e. Directive

1740. Lately the Phytopharm pharmaceutical company has been forced to decrease its production volume and range of goods. Not only does the company head manager demonstrate no managerial abilities, but he also appears to be completely disinterested in the running of the business and executes no control over it. Determine the leadership type of the head manager in this case:

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- a. Democratic
- b. Directive

c. Liberal

- d. Autocratic
- e. Authoritarian

1742. Licorice roots contain saponins. What reaction can prove their presence in the herbal raw material?

- a. Fehling's test
- b. Dragendorff's test
- c. Reaction with iron(III) chloride
- d. Molisch's test

e. Foaming reaction

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material?

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- b. Dragendorff's test
- c. Reaction with iron(III) chloride

d. Foaming reaction

- e. Fehling's test

1744. Licorice roots contain saponins. What reaction can prove their presence in the herbal raw material?

- a. Reaction with iron(III) chloride
- b. Fehling's test
- c. Molisch's test

d. Foaming reaction

- e. Dragendorff's test

1745. Limit cash balance is the maximum amount of monetary funds that can remain in the cash desk of an organization at the end of a workday. This limit is established by the following authorities:

a. Pharmacy management

- b. Chief physician
- c. Local authorities
- d. -
- e. Tax Inspectorate

1746. Limit cash balance is the maximum amount of monetary funds that can remain in the cash desk of an organization at the end of a workday. This limit is established by the following authorities:

- a. -

b. Pharmacy management

- c. Tax Inspectorate
- d. Local authorities
- e. Chief physician

1747. Limit cash balance is the maximum amount of monetary funds that can remain in the cash desk of an organization at the end of a workday. This limit is established by the following authorities:

- a. Tax Inspectorate
- b. -
- c. Chief physician

d. Pharmacy management

- e. Local authorities

1748. Lipophilicity is very important for the bioavailability of a substance. Name the numerical parameter that characterizes lipophilicity.

- a. Coefficient of surface tension

b. Distribution coefficient

- c. Coefficient of viscosity
- d. Correction factor
- e. Stoichiometric coefficient

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c. Distribution coefficient

- d. Stoichiometric coefficient
- e. Coefficient of surface tension

1750. Lipophilicity is very important for the bioavailability of a substance. Name the numerical parameter that characterizes lipophilicity.

- a. Correction factor
- b. Stoichiometric coefficient
- c. Coefficient of viscosity
- d. Coefficient of surface tension
- e. Distribution coefficient**

1751. Local anesthetic benzocaine can be identified using the reaction of iron(III) hydroxamate formation. What functional group makes it possible to conduct this reaction?

- a. Aldehyde group
- b. Esther group**
- c. Sulfamide group
- d. Ketone group
- e. Carboxylic group

1752. Local anesthetic benzocaine can be identified using the reaction of iron(III) hydroxamate formation. What functional group makes it possible to conduct this reaction?

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- b. Esther group**
- c. Sulfamide group
- d. Aldehyde group
- e. Ketone group

1754. Local anesthetics can fall into different chemical classes. Benzocaine is a drug that belongs to:

- a. Aromatic amino-aldehydes
- b. Aromatic amino acid esters**
- c. Aromatic ketones
- d. Aromatic amino acid amides
- e. Aromatic sulfo acid amides

1755. Local anesthetics can fall into different chemical classes. Benzocaine is a drug that belongs to:

- a. Aromatic ketones
- b. Aromatic sulfo acid amides
- c. Aromatic amino-aldehydes
- d. Aromatic amino acid amides
- e. Aromatic amino acid esters**

1756. Local anesthetics can fall into different chemical classes. Benzocaine is a drug that belongs to:

- a. Aromatic sulfo acid amides
- b. Aromatic ketones
- c. Aromatic amino acid esters**
- d. Aromatic amino acid amides
- e. Aromatic amino-aldehydes

1757. Mandatory payroll deductions are withheld from the salary of pharmacy workers. Specify the tax rate on income of natural persons:

- a. 18%**
- b. 0%
- c. 15%
- d. 20%
- e. 5%

1758. Mandatory payroll deductions are withheld from the salary of pharmacy workers. Specify the tax rate on income of natural persons:

- a. 18%**
- b. 20%
- c. 15%
- d. 0%
- e. 5%

1759. Mandatory payroll deductions are withheld from the salary of pharmacy workers. Specify the tax rate on income of natural persons:

- a. 15%
- b. 5%
- c. 18%**
- d. 20%
- e. 0%

1760. Manufacturer's marketing department detected negative demand for a certain goods. What would be the marketing task? What type of marketing should be applied?

- a. Demand making, conversion marketing**
- b. Demand stimulation, promotional marketing
- c. Demand increase, remarketing
- d. Demand decrease, demarketing
- e. Demand leveling, synchromarketing

1761. Manufacturer's marketing department detected negative demand for a certain goods. What would be the marketing task? What type of marketing should be applied?

- a. Demand decrease, demarketing
- b. Demand leveling, synchromarketing
- c. Demand increase, remarketing

d. Demand making, conversion marketing

- e. Demand stimulation, promotional marketing

1762. Manufacturer's marketing department detected negative demand for a certain goods. What would be the marketing task? What type of marketing should be applied?

- a. Demand stimulation, promotional marketing
- b. Demand increase, remarketing

c. Demand making, conversion marketing

- d. Demand decrease, demarketing
- e. Demand leveling, synchromarketing

1763. Marketing department of the Public Company "Lugansk Chemical Pharmaceutical Factory" determined that the demand for a herbal cough remedy, manufactured for children as a syrup, fluctuates significantly within a year. Such demand is considered to be:

a. Irregular

- b. Inadequate
- c. Unrealized
- d. Incorrect
- e. Irrational

1764. Marketing department of the Public Company "Lugansk Chemical Pharmaceutical Factory" determined that the demand for a herbal cough remedy, manufactured for children as a syrup, fluctuates significantly within a year. Such demand is considered to be:

a. Inadequate

b. Irregular

- c. Unrealized
- d. Irrational
- e. Incorrect

1765. Marketing department of the Public Company "Lugansk Chemical Pharmaceutical Factory" determined that the demand for a herbal cough remedy, manufactured for children as a syrup, fluctuates significantly within a year. Such demand is considered to be:

- a. Unrealized
- b. Incorrect
- c. Irrational

d. Irregular

e. Inadequate

1766. Medications Passit and Novopassit are used as tranquilizing, sedative and mild hypnotic agents. These medications are produced from the following grass:

a. Purple passionflower

- b. Lesser periwinkle
- c. Garden sage

- d. Elecampane
- e. Three-lobed beggarticks

1767. Medications Passit and Novopassit are used as tranquilizing, sedative and mild hypnotic agents. These medications are produced from the following grass:

- a. Garden sage
- b. Three-lobed beggarticks

c. Purple passionflower

- d. Elecampane
- e. Lesser periwinkle

1768. Medications Passit and Novopassit are used as tranquilizing, sedative and mild hypnotic agents. These medications are produced from the following grass:

- a. Lesser periwinkle
- b. Garden sage

c. Purple passionflower

- d. Elecampane
- e. Three-lobed beggarticks

1769. Medicinal dyes should be stored in a special cabinet. Which of the listed medical products is a dye:

a. Brilliant green

- b. Ethyl alcohol
- c. Ascorbic acid
- d. Glucose
- e. Hydrogen peroxide

1770. Medicinal dyes should be stored in a special cabinet. Which of the listed medical products is a dye:

a. Ethyl alcohol

b. Brilliant green

- c. Ascorbic acid
- d. Glucose
- e. Hydrogen peroxide

1771. Medicinal dyes should be stored in a special cabinet. Which of the listed medical products is a dye:

a. Glucose

b. Brilliant green

- c. Hydrogen peroxide
- d. Ethyl alcohol
- e. Ascorbic acid

1772. Medicinal substance had been received for chemical analysis. Biuret test was performed for identification. Name this substance:

a. Bromisoval

- b. Diphenhydramine
- c. Benzoic acid
- d. Iodoform
- e. Dipyrone (Metamizole)

1773. Medicinal substance had been received for chemical analysis. Biuret test was performed for identification. Name this substance:

- a. Benzoic acid
- b. Dipyrone (Metamizole)
- c. Iodoform
- d. Diphenhydramine

e. Bromisoval

1774. Medicinal substance had been received for chemical analysis. Biuret test was performed for identification. Name this substance:

- a. Iodoform
- b. Benzoic acid

- c. Diphenhydramine
- d. Dipyrrone (Metamizole)

e. Bromisoval

1775. Medicinal substances are introduced into multiphase ointments depending on their properties. How to introduce novocaine (procaine) hydrochloride into a vaseline-lanolin base?

a. First dissolve it in the minimum amount of water

- b. Grind it with a part of the molten base
- c. Dissolve it in the molten base
- d. Comminute it with glycerin
- e. Comminute it with an alcohol or ether

1776. Medicinal substances are introduced into multiphase ointments depending on their properties. How to introduce novocaine (procaine) hydrochloride into a vaseline-lanolin base?

- a. Comminute it with glycerin
- b. Grind it with a part of the molten base
- c. Comminute it with an alcohol or ether

d. First dissolve it in the minimum amount of water

- e. Dissolve it in the molten base

1777. Medicinal substances are introduced into multiphase ointments depending on their properties. How to introduce novocaine (procaine) hydrochloride into a vaseline-lanolin base?

- a. Grind it with a part of the molten base
- b. Dissolve it in the molten base

c. First dissolve it in the minimum amount of water

- d. Comminute it with glycerin
- e. Comminute it with an alcohol or ether

1778. Menthol has an antispasmodic and analgesic effect. What herbal raw material is a source of menthol?

- a. Folia Betulae
- b. Folia Menthae piperitae**
- c. Folia Salviae
- d. Folia Absinthii
- e. Folia Eucalypti

1779. Menthol has an antispasmodic and analgesic effect. What herbal raw material is a source of menthol?

- a. Folia Eucalypti
- b. Folia Menthae piperitae**
- c. Folia Betulae
- d. Folia Absinthii
- e. Folia Salviae

1780. Menthol has an antispasmodic and analgesic effect. What herbal raw material is a source of menthol?

- a. Folia Salviae
- b. Folia Betulae
- c. Folia Menthae piperitae**
- d. Folia Eucalypti
- e. Folia Absinthii

1781. Menthol has anesthetic and antiseptic effect. What plant is the source of menthol?

a. Folia Menthae piperitae

- b. Folia Eucalypti
- c. Folia Uvae ursi
- d. Folia Absinthii
- e. Folia Salviae

1782. Menthol has anesthetic and antiseptic effect. What plant is the source of menthol?

- a. Folia Eucalypti
- b. Folia Absinthii
- c. Folia Uvae ursi

d. Folia Salviae

e. Folia Menthae piperitae

1783. Menthol has anesthetic and antiseptic effect. What plant is the source of menthol?

a. Folia Salviae

b. Folia Eucalypti

c. Folia Menthae piperitae

d. Folia Uvae ursi

e. Folia Absinthii

1784. Menthol medicinal substance can be chemically classified as a:

a. Glycoside

b. Bicyclic terpene

c. Monocyclic terpene

d. Polypeptide

e. Acyclic terpene

1785. Menthol medicinal substance can be chemically classified as a:

a. Glycoside

b. Bicyclic terpene

c. Acyclic terpene

d. Monocyclic terpene

e. Polypeptide

1786. Menthol medicinal substance can be chemically classified as a:

a. Polypeptide

b. Acyclic terpene

c. Glycoside

d. Monocyclic terpene

e. Bicyclic terpene

1787. Merchandising is a complex of communication techniques that aim to increase the sales in the pharmacies. The main goal of merchandising is:

a. Expanding the range of pharmaceutical goods

b. Quick sales of the whole range of goods on offer in the pharmacies and an overall increase of sales

c. Price-cutting for unpopular medicines

d. Decrease of the competition between the drug analogues

e. -

1788. Merchandising is a complex of communication techniques that aim to increase the sales in the pharmacies. The main goal of merchandising is:

a. Expanding the range of pharmaceutical goods

b. -

c. Price-cutting for unpopular medicines

d. Decrease of the competition between the drug analogues

e. Quick sales of the whole range of goods on offer in the pharmacies and an overall increase of sales

1789. Merchandising is a complex of communication techniques that aim to increase the sales in the pharmacies. The main goal of merchandising is:

a. Price-cutting for unpopular medicines

b. Decrease of the competition between the drug analogues

c. -

d. Expanding the range of pharmaceutical goods

e. Quick sales of the whole range of goods on offer in the pharmacies and an overall increase of sales

1790. Microcapsules are made by coating solid particles of the substance being encapsulated with a shell consisting of metallic silver, zinc, etc. Name this method of making microcapsules:

a. Galvanization

b. Slurrying of the nuclei

c. Pelleting

d. Polymerization

e. Coacervation

1791. Microcapsules are made by coating solid particles of the substance being encapsulated with a

shell consisting of metallic silver, zinc, etc. Name this method of making microcapsules:

- a. Coacervation
- b. Pelleting
- c. Polymerization

d. Galvanization

- e. Slurring of the nuclei

1792. Microcapsules are made by coating solid particles of the substance being encapsulated with a shell consisting of metallic silver, zinc, etc. Name this method of making microcapsules:

- a. Polymerization
- b. Coacervation
- c. Slurring of the nuclei
- d. Pelleting

e. Galvanization

1793. Microscopy of a root of a certain medicinal plant reveals the following features: parenchyma cells contain inulin, there are laticifers, cambium line is clearly visible. This root belongs to:

- a. *Althaea officinalis*

b. *Taraxacum officinalis*

- c. *Zingiber officinale*
- d. *Inula helenium*
- e. *Sanguisorba officinalis*

1794. Microscopy of a root of a certain medicinal plant reveals the following features: parenchyma cells contain inulin, there are laticifers, cambium line is clearly visible. This root belongs to:

- a. *Inula helenium*
- b. *Sanguisorba officinalis*
- c. *Zingiber officinale*
- d. *Althaea officinalis*

e. *Taraxacum officinalis*

1795. Microscopy of a root of a certain medicinal plant reveals the following features: parenchyma cells contain inulin, there are laticifers, cambium line is clearly visible. This root belongs to:

- a. *Sanguisorba officinalis*
- b. *Zingiber officinale*
- c. *Althaea officinalis*
- d. *Inula helenium*

e. *Taraxacum officinalis*

1796. Microscopy of herbal raw material reveals the following diagnostic characters in the microslide: pseudostratified cork, large parenchyma cells, filled with inulin, clearly visible cambium layer, large vessels, schizogenous cavities with essential oil. These features confirm the authenticity of the following herbal raw material:

- a. *Radices Althaeae*
- b. *Radices Ononidis*
- c. *Rhizomata et radices Rubiae*
- d. *Radices Taraxaci*

e. *Rhizomata et radices Inulae*

1797. Microscopy of herbal raw material reveals the following diagnostic characters in the microslide: pseudostratified cork, large parenchyma cells, filled with inulin, clearly visible cambium layer, large vessels, schizogenous cavities with essential oil. These features confirm the authenticity of the following herbal raw material:

- a. *Radices Ononidis*
- b. *Radices Taraxaci*

c. *Rhizomata et radices Inulae*

- d. *Rhizomata et radices Rubiae*
- e. *Radices Althaeae*

1798. Microscopy of herbal raw material reveals the following diagnostic characters in the microslide: pseudostratified cork, large parenchyma cells, filled with inulin, clearly visible cambium layer, large vessels, schizogenous cavities with essential oil. These features confirm the authenticity of the

following herbal raw material:

- a. Rhizomata et radices Rubiae
- b. Radices Ononidis
- c. Radices Althaeae
- d. Radices Taraxaci

e. Rhizomata et radices Inulae

1799. Microscopy of transverse section of a bark sample shows a wide dark red cork layer, lamellar collenchyma, druses, bast fibers with a crystal sheath, and medullary rays. What herbal raw material is it?

- a. Ash bark
- b. Oak bark

c. Buckthorn bark

- d. Birch bark
- e. Willow bark

1800. Microscopy of transverse section of a bark sample shows a wide dark red cork layer, lamellar collenchyma, druses, bast fibers with a crystal sheath, and medullary rays. What herbal raw material is it?

- a. Birch bark
- b. Willow bark

c. Buckthorn bark

- d. Oak bark
- e. Ash bark

1801. Microscopy of transverse section of a bark sample shows a wide dark red cork layer, lamellar collenchyma, druses, bast fibers with a crystal sheath, and medullary rays. What herbal raw material is it?

- a. Willow bark
- b. Birch bark

c. Buckthorn bark

- d. Ash bark
- e. Oak bark

1802. Mixture is a liquid dosage form for internal use. It is obtained by mixing two or more solid or liquid dosage forms in a solvent. If a mixture contains tinctures, they should be added:

- a. After poisonous and narcotic substances are dissolved (before concentrates)
- b. Last in the order of decreasing ethanol concentration
- c. First
- d. In the same order in which they are listed in the formulation

e. Last in the order of increasing ethanol concentration

1803. Mixture is a liquid dosage form for internal use. It is obtained by mixing two or more solid or liquid dosage forms in a solvent. If a mixture contains tinctures, they should be added:

- a. First
- b. After poisonous and narcotic substances are dissolved (before concentrates)
- c. Last in the order of decreasing ethanol concentration

d. Last in the order of increasing ethanol concentration

- e. In the same order in which they are listed in the formulation

1804. Mixture is a liquid dosage form for internal use. It is obtained by mixing two or more solid or liquid dosage forms in a solvent. If a mixture contains tinctures, they should be added:

- a. In the same order in which they are listed in the formulation

b. Last in the order of increasing ethanol concentration

- c. After poisonous and narcotic substances are dissolved (before concentrates)
- d. First
- e. Last in the order of decreasing ethanol concentration

1805. Money received for the goods sold are being transferred to the pharmacy from its outlet. What document must be drawn up by a cashier for the receipt of this monetary sum?

a. Cash receipt order

- b. Cash withdrawal order

- c. Cashier's check
- d. Bank statement
- e. Payment order

1806. Money received for the goods sold are being transferred to the pharmacy from its outlet. What document must be drawn up by a cashier for the receipt of this monetary sum?

- a. Bank statement
- b. Cash receipt order**

- c. Payment order
- d. Cash withdrawal order
- e. Cashier's check

1807. Money received for the goods sold are being transferred to the pharmacy from its outlet. What document must be drawn up by a cashier for the receipt of this monetary sum?

- a. Cashier's check
- b. Cash withdrawal order
- c. Cash receipt order**

- d. Payment order
- e. Bank statement

1808. Most drugs contain heterocyclic fragments in their structure. Which of the following drugs is a pyrrole derivative?

- a. Piracetam**
- b. Tolbutamide
- c. Bendazol
- d. Furosemide
- e. Phencarol (Quifenadine)

1809. Most drugs contain heterocyclic fragments in their structure. Which of the following drugs is a pyrrole derivative?

- a. Furosemide
- b. Piracetam**
- c. Bendazol
- d. Tolbutamide
- e. Phencarol (Quifenadine)

1810. Most drugs contain heterocyclic fragments in their structure. Which of the following drugs is a pyrrole derivative?

- a. Phencarol (Quifenadine)
- b. Bendazol
- c. Piracetam**
- d. Furosemide
- e. Tolbutamide

1811. Most types of herbal raw materials are stored dry. However, for juice production the factories receive fresh herbal material. Name one such plant that is processed fresh:

- a. *Althaea officinalis*
- b. *Plantago major***
- c. *Capsella bursa-pastoris*
- d. *Rosa canina*
- e. *Urtica dioica*

1812. Most types of herbal raw materials are stored dry. However, for juice production the factories receive fresh herbal material. Name one such plant that is processed fresh:

- a. *Althaea officinalis*
- b. *Urtica dioica*
- c. *Rosa canina*
- d. *Capsella bursa-pastoris*
- e. *Plantago major***

1813. Most types of herbal raw materials are stored dry. However, for juice production the factories receive fresh herbal material. Name one such plant that is processed fresh:

- a. *Capsella bursa-pastoris*

b. Plantago major

- c. Rosa canina
- d. Althaea officinalis
- e. Urtica dioica

1814. Motherwort grass is a component of hypotensive and sedative drugs. This herbal raw material should be harvested taking into account its renewal rate. Therefore it can be harvested:

a. Once every 5 years

- b. Once every 2 years
- c. Once every 3 years
- d. Every year
- e. Once every 10 years

1815. Motherwort grass is a component of hypotensive and sedative drugs. This herbal raw material should be harvested taking into account its renewal rate. Therefore it can be harvested:

- a. Every year
- b. Once every 3 years
- c. Once every 10 years
- d. Once every 5 years**
- e. Once every 2 years

1816. Motherwort grass is a component of hypotensive and sedative drugs. This herbal raw material should be harvested taking into account its renewal rate. Therefore it can be harvested:

- a. Once every 10 years
- b. Once every 5 years**
- c. Once every 3 years
- d. Once every 2 years
- e. Every year

1817. Motivation is one of the management functions. A motive can be described as:

- a. A certain discomfort, a feeling that something is lacking
- b. -
- c. Something that is important for a person
- d. A conscious incentive to act in a certain way**
- e. Psychological characteristics of people that help them acquire certain types of knowledge

1818. Motivation is one of the management functions. A motive can be described as:

- a. Something that is important for a person
- b. -
- c. A certain discomfort, a feeling that something is lacking
- d. A conscious incentive to act in a certain way**
- e. Psychological characteristics of people that help them acquire certain types of knowledge

1819. Motivation is one of the management functions. A motive can be described as:

- a. Something that is important for a person
- b. Psychological characteristics of people that help them acquire certain types of knowledge
- c. A conscious incentive to act in a certain way**
- d. A certain discomfort, a feeling that something is lacking
- e. -

1820. Name the document where the actual hours worked by the pharmacy employees are recorded:

a. Employee time sheet

- b. Material aid log book
- c. Medical certificate
- d. Payroll
- e. Work schedule

1821. Name the document where the actual hours worked by the pharmacy employees are recorded:

- a. Payroll
- b. Employee time sheet**
- c. Work schedule
- d. Material aid log book
- e. Medical certificate

1822. Name the document where the actual hours worked by the pharmacy employees are recorded:

- a. Payroll
- b. Work schedule
- c. Material aid log book
- d. Employee time sheet**
- e. Medical certificate

1823. Name the drug of choice for treatment of arterial hypertension during pregnancy:

- a. Alpha-methyldopa**
- b. Captopril
- c. Sodium nitroprusside
- d. Propranolol
- e. Furosemide

1824. Name the drug of choice for treatment of arterial hypertension during pregnancy:

- a. Furosemide
- b. Captopril
- c. Alpha-methyldopa**
- d. Sodium nitroprusside
- e. Propranolol

1825. Name the drug of choice for treatment of arterial hypertension during pregnancy:

- a. Furosemide
- b. Captopril
- c. Sodium nitroprusside
- d. Propranolol

e. Alpha-methyldopa

1826. Name the list of effective and safe to use drugs and medical products for prevention, diagnosing, and treatment of the most common pathologies, based on their importance for healthcare in a specific country:

- a. Over-the-counter drugs
- b. Essential drugs**

- c. Precursors
- d. Substandard drugs
- e. Drugs subject to strict accounting in a special inventory log

1827. Name the list of effective and safe to use drugs and medical products for prevention, diagnosing, and treatment of the most common pathologies, based on their importance for healthcare in a specific country:

- a. Substandard drugs
- b. Drugs subject to strict accounting in a special inventory log

c. Essential drugs

- d. Over-the-counter drugs
- e. Precursors

1828. Name the list of pharmacy's property that indicates the actual balance and value of pharmacy's stocks as determined in the process of stock-taking:

- a. Accounts ledger
- b. Register of requisitions
- c. Commodity report
- d. Cash flow register

e. Inventory

1829. Name the list of pharmacy's property that indicates the actual balance and value of pharmacy's stocks as determined in the process of stock-taking:

- a. Cash flow register
- b. Accounts ledger
- c. Commodity report

d. Inventory

- e. Register of requisitions

1830. Name the list of pharmacy's property that indicates the actual balance and value of pharmacy's

stocks as determined in the process of stock-taking:

- a. Register of requisitions
- b. Cash flow register
- c. Accounts ledger
- d. Inventory**

e. Commodity report

1831. Name the main indicator that differentiates water for injection from purified water:

a. Absence of heavy metals

b. Apyrogenicity

- c. pH value
- d. The way in which it was obtained
- e. Absence of mechanical inclusions

1832. Name the main indicator that differentiates water for injection from purified water:

a. Absence of mechanical inclusions

b. Apyrogenicity

- c. The way in which it was obtained
- d. pH value
- e. Absence of heavy metals

1833. Name the main indicator that differentiates water for injection from purified water:

a. Absence of mechanical inclusions

b. pH value

c. Absence of heavy metals

d. Apyrogenicity

e. The way in which it was obtained

1834. Name the official document on audit results, which is drawn under the standard procedure and contains conclusions about reporting credibility and integrity of financial statements of an organization:

a. Auditor's conclusion

- b. Statement of changes in equity
- c. Cash flow statement
- d. Balance sheet
- e. Income statement

1835. Name the official document on audit results, which is drawn under the standard procedure and contains conclusions about reporting credibility and integrity of financial statements of an organization:

a. Income statement

b. Balance sheet

c. Auditor's conclusion

- d. Cash flow statement
- e. Statement of changes in equity

1836. Name the official document on audit results, which is drawn under the standard procedure and contains conclusions about reporting credibility and integrity of financial statements of an organization:

a. Statement of changes in equity

b. Cash flow statement

c. Auditor's conclusion

- d. Income statement
- e. Balance sheet

1837. Name the optimal vehicle for soluble vaginal suppositories:

a. Cocoa butter

b. Glycerine

c. Polyethylene oxide

d. Hard fat

e. Fat

1838. Name the optimal vehicle for soluble vaginal suppositories:

- a. Fat
- b. Cocoa butter
- c. Hard fat
- d. Glycerine

e. Polyethylene oxide

1839. Name the optimal vehicle for soluble vaginal suppositories:

- a. Hard fat
- b. Glycerine
- c. Cocoa butter

d. Polyethylene oxide

- e. Fat

1840. Name the ready-to-use dosage form that is a gelatin capsule, filled with microcapsules that have an oil shell:

- a. OROS tablet
- b. Microcapsule

c. Spansule

- d. Pearl
- e. Tubatine

1841. Name the ready-to-use dosage form that is a gelatin capsule, filled with microcapsules that have an oil shell:

- a. OROS tablet
- b. Tubatine

c. Spansule

- d. Microcapsule
- e. Pearl

1842. Name the ready-to-use dosage form that is a gelatin capsule, filled with microcapsules that have an oil shell:

- a. OROS tablet
- b. Tubatine

c. Spansule

- d. Pearl
- e. Microcapsule

1843. Name the type of suppositories that are made from aqueous suspensions and undergo deep freezing.

a. Lyophilized

- b. Dyed
- c. Porous
- d. Multi-layered
- e. Hollow

1844. Name the type of suppositories that are made from aqueous suspensions and undergo deep freezing.

- a. Multi-layered
- b. Hollow
- c. Dyed

d. Lyophilized

- e. Porous

1845. Name the type of suppositories that are made from aqueous suspensions and undergo deep freezing.

- a. Multi-layered
- b. Hollow
- c. Dyed
- d. Porous

e. Lyophilized

1846. Natural penicillins are unstable at high temperatures and quickly break down in alkaline and acidic environments. What cycle causes such chemical properties of natural penicillins?

a. Phenothiazine

b. beta-lactam

c. Quinoline

d. Furan

e. Pyridine

1847. Natural penicillins are unstable at high temperatures and quickly break down in alkaline and acidic environments. What cycle causes such chemical properties of natural penicillins?

a. Phenothiazine

b. Pyridine

c. Quinoline

d. Furan

e. beta-lactam

1848. Natural penicillins are unstable at high temperatures and quickly break down in alkaline and acidic environments. What cycle causes such chemical properties of natural penicillins?

a. Quinoline

b. Furan

c. Phenothiazine

d. beta-lactam

e. Pyridine

1849. Natural persons registered as small business entities with simplified taxation scheme are subject to limitation of the annual amount of sales proceeds. Specify the proceeds limit:

a. 500 000 UAH

b. 100 000 UAH

c. 750 000 UAH

d. 5 000 000 UAH

e. 3 000 000 UAH

1850. Natural persons registered as small business entities with simplified taxation scheme are subject to limitation of the annual amount of sales proceeds. Specify the proceeds limit:

a. 5 000 000 UAH

b. 500 000 UAH

c. 100 000 UAH

d. 750 000 UAH

e. 3 000 000 UAH

1851. Natural persons registered as small business entities with simplified taxation scheme are subject to limitation of the annual amount of sales proceeds. Specify the proceeds limit:

a. 5 000 000 UAH

b. 750 000 UAH

c. 3 000 000 UAH

d. 500 000 UAH

e. 100 000 UAH

1852. Nicotinamide is a pyridine derivative, which can be identified by its positive reaction with:

a. Copper-tartrate solution

b. Cyanogen bromide reagent

c. Thioglycolic acid solution

d. Thioacetamide reagent

e. Grade reagent

1853. Nicotinamide is a pyridine derivative, which can be identified by its positive reaction with:

a. Grade reagent

b. Cyanogen bromide reagent

c. Copper-tartrate solution

d. Thioacetamide reagent

e. Thioglycolic acid solution

1854. Nicotinamide is a pyridine derivative, which can be identified by its positive reaction with:

a. Thioglycolic acid solution

b. Copper-tartrate solution

- c. Grade reagent
- d. Thioacetamide reagent

e. Cyanogen bromide reagent

1855. Nitroxoline with sodium hydroxide solution produces:

a. Orange-red coloration

- b. Yellow precipitate
- c. Green-black coloration
- d. Violet coloration
- e. White precipitate

1856. Nitroxoline with sodium hydroxide solution produces:

a. Orange-red coloration

- b. Yellow precipitate
- c. White precipitate
- d. Green-black coloration
- e. Violet coloration

1857. Nitroxoline with sodium hydroxide solution produces:

- a. Green-black coloration
- b. White precipitate
- c. Yellow precipitate
- d. Violet coloration

e. Orange-red coloration

1858. Number of mediators that pharmaceutical goods pass on their way from manufacturer to consumer is called:

- a. -
- b. Width of distribution channel

c. Length of distribution channel

- d. Level of distribution channel
- e. Volume of distribution channel

1859. Number of mediators that pharmaceutical goods pass on their way from manufacturer to consumer is called:

- a. Level of distribution channel

b. Length of distribution channel

- c. -
- d. Width of distribution channel
- e. Volume of distribution channel

1860. Number of mediators that pharmaceutical goods pass on their way from manufacturer to consumer is called:

- a. Width of distribution channel
- b. -
- c. Volume of distribution channel

d. Length of distribution channel

- e. Level of distribution channel

1861. Oblong tablets are called:

- a. Dragee
- b. Forte tablets
- c. Capsules
- d. Pellets

e. Caplets

1862. Oblong tablets are called:

- a. Dragee
- b. Pellets

c. Caplets

- d. Forte tablets
- e. Capsules

1863. Oblong tablets are called:

- a. Forte tablets
- b. Capsules
- c. Dragee
- d. Pellets

e. Caplets

1864. On the initiative and with support of the manufacturing company, free samples of adhesive bandages were handed out to the visitors at a pharmacy. What element of the marketing communications complex is it?

a. Sales promotion, sampling

- b. Lobbying
- c. Public relations
- d. Personal selling
- e. Advertising

1865. On the initiative and with support of the manufacturing company, free samples of adhesive bandages were handed out to the visitors at a pharmacy. What element of the marketing communications complex is it?

- a. Lobbying
- b. Advertising

c. Sales promotion, sampling

- d. Personal selling
- e. Public relations

1866. On the initiative and with support of the manufacturing company, free samples of adhesive bandages were handed out to the visitors at a pharmacy. What element of the marketing communications complex is it?

- a. Personal selling
- b. Public relations

c. Sales promotion, sampling

- d. Advertising
- e. Lobbying

1867. On the occasion of the Pharmaceutical Worker Day in Ukraine, the best employees at a pharmacy were awarded the Letters of Commendation. What type of management methods was used in this case?

- a. -
- b. Administrative
- c. Technological

d. Socio-psychological

- e. Economic

1868. On the occasion of the Pharmaceutical Worker Day in Ukraine, the best employees at a pharmacy were awarded the Letters of Commendation. What type of management methods was used in this case?

- a. Economic
- b. Administrative

c. Socio-psychological

- d. Technological
- e. -

1869. On the occasion of the Pharmaceutical Worker Day in Ukraine, the best employees at a pharmacy were awarded the Letters of Commendation. What type of management methods was used in this case?

- a. Technological
- b. Administrative

c. Socio-psychological

- d. -
- e. Economic

1870. One of the most important market characteristics is a goods economic trend. What economic trend can be characterized by relative stability of high prices and the highest activity of

manufacturers and customers?

- a. Downward
- b. Sluggish
- c. Low
- d. Subsiding
- e. High (stable)**

1871. One of the most important market characteristics is a goods economic trend. What economic trend can be characterized by relative stability of high prices and the highest activity of manufacturers and customers?

- a. Low
- b. High (stable)**
- c. Subsiding
- d. Downward
- e. Sluggish

1872. One of the most important market characteristics is a goods economic trend. What economic trend can be characterized by relative stability of high prices and the highest activity of manufacturers and customers?

- a. Subsiding
- b. High (stable)**
- c. Sluggish
- d. Low
- e. Downward

1873. One of the numerical parameters of herbal raw material quality is the amount of extractive substances that can be measured using:

- a. Gravimetry**
- b. Spectrophotometry
- c. Chromatography
- d. Biological standardization
- e. Titrimetry

1874. One of the numerical parameters of herbal raw material quality is the amount of extractive substances that can be measured using:

- a. Biological standardization
- b. Chromatography
- c. Gravimetry**
- d. Spectrophotometry
- e. Titrimetry

1875. One of the numerical parameters of herbal raw material quality is the amount of extractive substances that can be measured using:

- a. Chromatography
- b. Titrimetry
- c. Biological standardization
- d. Gravimetry**
- e. Spectrophotometry

1876. One of the substances listed below changes its appearance when stored in a brightly lit place and not tightly sealed against air (assumes pink coloring). Name this substance:

- a. Boric acid
- b. Barium sulfate
- c. Sodium benzoate
- d. Resorcin**
- e. Sodium chloride

1877. One of the substances listed below changes its appearance when stored in a brightly lit place and not tightly sealed against air (assumes pink coloring). Name this substance:

- a. Sodium benzoate
- b. Boric acid
- c. Barium sulfate

d. Resorcin

e. Sodium chloride

1878. One of the substances listed below changes its appearance when stored in a brightly lit place and not tightly sealed against air (assumes pink coloring). Name this substance:

a. Sodium chloride

b. Resorcin

c. Boric acid

d. Sodium benzoate

e. Barium sulfate

1879. One of the substances listed below is textbfNOT a vitamin:

a. Calcium pangamate

b. Calcium gluconate

c. Ergocalciferol

d. Nicotinic acid

e. Calcium pantothenate

1880. One of the substances listed below is textbfNOT a vitamin:

a. Calcium pantothenate

b. Nicotinic acid

c. Ergocalciferol

d. Calcium pangamate

e. Calcium gluconate

1881. One of the substances listed below is textbfNOT a vitamin:

a. Nicotinic acid

b. Calcium pantothenate

c. Calcium pangamate

d. Ergocalciferol

e. Calcium gluconate

1882. Optical rotation angle of substances is determined under the temperature of 20°C , in 1-decimeter-thick layer, with wavelength of sodium spectrum D-lines ($\lambda = 589,3 \text{ nm}$), and is calculated with reference to a solution containing 1 g of the substance per ml. It is called:

a. Specific optical rotation

b. Relative density

c. Optical density

d. Distribution coefficient

e. Refractive index

1883. Optical rotation angle of substances is determined under the temperature of 20°C , in 1-decimeter-thick layer, with wavelength of sodium spectrum D-lines ($\lambda = 589,3 \text{ nm}$), and is calculated with reference to a solution containing 1 g of the substance per ml. It is called:

a. Distribution coefficient

b. Relative density

c. Specific optical rotation

d. Refractive index

e. Optical density

1884. Optical rotation angle of substances is determined under the temperature of 20°C , in 1-decimeter-thick layer, with wavelength of sodium spectrum D-lines ($\lambda = 589,3 \text{ nm}$), and is calculated with reference to a solution containing 1 g of the substance per ml. It is called:

a. Refractive index

b. Optical density

c. Distribution coefficient

d. Specific optical rotation

e. Relative density

1885. Organizationally, a pharmacy is divided into separate departments: Prescription and Extemporaneous Medicines, Stock Department, and Over-the-Counter Medicines. What organizational management structure can be characterized by such a division?

a. Functional

- b. Divisional
- c. Linear
- d. Matrix
- e. Line and staff

1886. Organizationally, a pharmacy is divided into separate departments: Prescription and Extemporaneous Medicines, Stock Department, and Over-the-Counter Medicines. What organizational management structure can be characterized by such a division?

- a. Divisional
- b. Linear
- c. Matrix
- d. Functional
- e. Line and staff

1887. Organizationally, a pharmacy is divided into separate departments: Prescription and Extemporaneous Medicines, Stock Department, and Over-the-Counter Medicines. What organizational management structure can be characterized by such a division?

- a. Line and staff
- b. Functional
- c. Divisional
- d. Linear
- e. Matrix

1888. *Origanum vulgare* herbal raw material is harvested during the flowering. How is it harvested?

- a. Only the tips of the inflorescences are cut
- b. The grass is cut with a knife or sickle at a distance of 20-30 cm from the ground
- c. The leaves are plucked with the stem
- d. The whole plant is dug up
- e. The whole plant with a root is pulled out from the soil

1889. *Origanum vulgare* herbal raw material is harvested during the flowering. How is it harvested?

- a. The leaves are plucked with the stem
- b. The whole plant is dug up
- c. The whole plant with a root is pulled out from the soil
- d. Only the tips of the inflorescences are cut
- e. The grass is cut with a knife or sickle at a distance of 20-30 cm from the ground

1890. *Origanum vulgare* herbal raw material is harvested during the flowering. How is it harvested?

- a. The whole plant with a root is pulled out from the soil
- b. The whole plant is dug up
- c. The grass is cut with a knife or sickle at a distance of 20-30 cm from the ground
- d. The leaves are plucked with the stem
- e. Only the tips of the inflorescences are cut

1891. Paracetamol reaction with hydrochloric acid, followed by addition of potassium dichromate, produces the following:

- a. Azo dye
- b. Aurin dye
- c. Indophenol dye
- d. Schiff base
- e. Triphenylmethane dye

1892. Paracetamol reaction with hydrochloric acid, followed by addition of potassium dichromate, produces the following:

- a. Azo dye
- b. Triphenylmethane dye
- c. Aurin dye
- d. Indophenol dye
- e. Schiff base

1893. Paracetamol reaction with hydrochloric acid, followed by addition of potassium dichromate, produces the following:

- a. Triphenylmethane dye

- b. Schiff base
- c. Azo dye
- d. Aurin dye

e. Indophenol dye

1894. Paracetamol substance has been sent for analysis. Reaction with the solution of iron (III) chloride resulted in the blue-violet coloring. This indicates the presence of:

a. Phenolic hydroxyl

- b. Aldehyde group
- c. Ester group
- d. Alcoholic hydroxyl
- e. Keto group

1895. Paracetamol substance has been sent for analysis. Reaction with the solution of iron (III) chloride resulted in the blue-violet coloring. This indicates the presence of:

- a. Aldehyde group
- b. Alcoholic hydroxyl

c. Phenolic hydroxyl

- d. Keto group
- e. Ester group

1896. Paracetamol substance has been sent for analysis. Reaction with the solution of iron (III) chloride resulted in the blue-violet coloring. This indicates the presence of:

- a. Aldehyde group
- b. Alcoholic hydroxyl
- c. Ester group

d. Phenolic hydroxyl

- e. Keto group

1897. Passiflora incarnata grass contains a complex of indole alkaloids. What pharmacological group do Passiflora preparations belong to?

- a. Antibacterial agents

b. Sedatives

- c. Diuretics
- d. Wound healing agents
- e. Laxatives

1898. Passiflora incarnata grass contains a complex of indole alkaloids. What pharmacological group do Passiflora preparations belong to?

- a. Antibacterial agents

b. Sedatives

- c. Laxatives
- d. Diuretics
- e. Wound healing agents

1899. Passiflora incarnata grass contains a complex of indole alkaloids. What pharmacological group do Passiflora preparations belong to?

- a. Diuretics
- b. Laxatives

c. Sedatives

- d. Wound healing agents
- e. Antibacterial agents

1900. Pectin is a heteropolysaccharide. What is its pharmacological effect?

- a. Cardiotonic

b. Detoxicant

- c. Expectorant
- d. Litholytic
- e. Astringent

1901. Pectin is a heteropolysaccharide. What is its pharmacological effect?

- a. Expectorant
- b. Litholytic

- c. Astringent
- d. Cardiotonic

e. Detoxicant

1902. Pectin is a heteropolysaccharide. What is its pharmacological effect?

a. Litholytic

b. Detoxicant

- c. Cardiotonic
- d. Expectorant
- e. Astringent

1903. Pharmaceutical analysis of glutamic acid requires the determination of nitrogen after mineralization with concentrated sulfuric acid. Ammonia that forms during the test is pumped away into the receiving flask. What solution should the receiving flask contain during this test?

- a. Freshly prepared tannin solution
- b. Saturated sodium chloride solution
- c. Titrated sodium edetate solution

d. Titrated hydrochloric acid solution

e. Iodized potassium iodide solution

1904. Pharmaceutical analysis of glutamic acid requires the determination of nitrogen after mineralization with concentrated sulfuric acid. Ammonia that forms during the test is pumped away into the receiving flask. What solution should the receiving flask contain during this test?

- a. Freshly prepared tannin solution
- b. Titrated sodium edetate solution
- c. Saturated sodium chloride solution

d. Titrated hydrochloric acid solution

e. Iodized potassium iodide solution

1905. Pharmaceutical analysis of glutamic acid requires the determination of nitrogen after mineralization with concentrated sulfuric acid. Ammonia that forms during the test is pumped away into the receiving flask. What solution should the receiving flask contain during this test?

- a. Titrated sodium edetate solution
- b. Iodized potassium iodide solution

c. Titrated hydrochloric acid solution

d. Saturated sodium chloride solution

e. Freshly prepared tannin solution

1906. Pharmaceutical corporations pay great attention to the formation of a certain set of values, traditions, and behavioral norms for all their employees. What is formed as a result of this type of corporate organizational work?

- a. Business expansion
- b. Organization profitability

c. Organization culture

d. Product diversification

e. Staff leasing

1907. Pharmaceutical corporations pay great attention to the formation of a certain set of values, traditions, and behavioral norms for all their employees. What is formed as a result of this type of corporate organizational work?

- a. Staff leasing
- b. Business expansion
- c. Organization profitability

d. Organization culture

e. Product diversification

1908. Pharmaceutical corporations pay great attention to the formation of a certain set of values, traditions, and behavioral norms for all their employees. What is formed as a result of this type of corporate organizational work?

- a. Staff leasing
- b. Organization profitability
- c. Product diversification

d. Organization culture

e. Business expansion

1909. Pharmaceutical factory received a batch of Althaea roots. What reagent should be used in histochemical test for slime production in the course of qualitative analysis?

- a. 1% ammonium iron(III) sulfate solution
- b. Sudan III solution

c. Alcoholic solution of methylene blue

d. 1% phloroglucinol solution

e. Dragendorff reagent

1910. Pharmaceutical factory received a batch of Althaea roots. What reagent should be used in histochemical test for slime production in the course of qualitative analysis?

- a. 1% ammonium iron(III) sulfate solution
- b. Sudan III solution

c. Alcoholic solution of methylene blue

d. Dragendorff reagent

e. 1% phloroglucinol solution

1911. Pharmaceutical factory received a batch of Althaea roots. What reagent should be used in histochemical test for slime production in the course of qualitative analysis?

- a. 1% phloroglucinol solution
- b. 1% ammonium iron(III) sulfate solution
- c. Sudan III solution
- d. Dragendorff reagent

e. Alcoholic solution of methylene blue

1912. Pharmaceutical logistics is aimed at advertising, search for customers, entering into agreements, after-sales service, and transportation. What type of logistics is it?

a. Manufacturing

b. Sales

c. Information

d. Procurement

e. Human resources

1913. Pharmaceutical logistics is aimed at advertising, search for customers, entering into agreements, after-sales service, and transportation. What type of logistics is it?

a. Procurement

b. Sales

c. Human resources

d. Manufacturing

e. Information

1914. Pharmaceutical logistics is aimed at advertising, search for customers, entering into agreements, after-sales service, and transportation. What type of logistics is it?

- a. Procurement
- b. Human resources
- c. Information

d. Sales

e. Manufacturing

1915. Pharmaceutical workers decided to organize a business. What is the basis of the concept of "limited liability company"?

a. A company, the members of which bear the liability for the company's debts within the amount of their contributions

b. A company, the members of which bear additional solidary liability for the company's obligations with all their property

c. A company, the members of which bear the liability for the company's debts within the amount of their contributions, and if these amounts are insufficient, all the members are equally liable to cover the debt with their personal property

d. A company, the members of which bear full liability

e. A company, the members of which bear additional solidary liability for the company's obligations

with all their property, while the company's investors bear liability only in the amount of their investments

1916. Pharmaceutical workers decided to organize a business. What is the basis of the concept of "limited liability company"?

- a. A company, the members of which bear full liability
- b. A company, the members of which bear additional solidary liability for the company's obligations with all their property
- c. A company, the members of which bear additional solidary liability for the company's obligations with all their property, while the company's investors bear liability only in the amount of their investments
- d. A company, the members of which bear the liability for the company's debts within the amount of their contributions**
- e. A company, the members of which bear the liability for the company's debts within the amount of their contributions, and if these amounts are insufficient, all the members are equally liable to cover the debt with their personal property

1917. Pharmaceutical workers decided to organize a business. What is the basis of the concept of "limited liability company"?

- a. A company, the members of which bear full liability
- b. A company, the members of which bear additional solidary liability for the company's obligations with all their property, while the company's investors bear liability only in the amount of their investments
- c. A company, the members of which bear additional solidary liability for the company's obligations with all their property
- d. A company, the members of which bear the liability for the company's debts within the amount of their contributions**
- e. A company, the members of which bear the liability for the company's debts within the amount of their contributions, and if these amounts are insufficient, all the members are equally liable to cover the debt with their personal property

1918. Pharmacies can prepare medicines based on individual formulations. What makes up the retail price of such medicines?

- a. Cost of labor and price markup
- b. Cost of ingredients and package
- c. Cost of ingredients, package, and labor**
- d. Cost of ingredients
- e. Cost of the ingredients that make up this dosage form

1919. Pharmacies can prepare medicines based on individual formulations. What makes up the retail price of such medicines?

- a. Cost of the ingredients that make up this dosage form
- b. Cost of ingredients and package
- c. Cost of labor and price markup
- d. Cost of ingredients, package, and labor**
- e. Cost of ingredients

1920. Pharmacies can prepare medicines based on individual formulations. What makes up the retail price of such medicines?

- a. Cost of the ingredients that make up this dosage form
- b. Cost of labor and price markup
- c. Cost of ingredients, package, and labor**
- d. Cost of ingredients and package
- e. Cost of ingredients

1921. Pharmacies use cash registers during the sales of medicines. Name the document for the accounting of Z-reports:

- a. Transactions ledger**
- b. Prescription logbook
- c. Receipt book
- d. Cash book

e. Customers ledger

1922. Pharmacies use cash registers during the sales of medicines. Name the document for the accounting of Z-reports:

a. Transactions ledger

b. Receipt book

c. Cash book

d. Customers ledger

e. Prescription logbook

1923. Pharmacies use cash registers during the sales of medicines. Name the document for the accounting of Z-reports:

a. Customers ledger

b. Transactions ledger

c. Prescription logbook

d. Receipt book

e. Cash book

1924. Pharmacological properties and bioavailability of drugs is determined by their chemical structure. What medicinal substance contains simultaneously a carboxyl group and an ester group?

a. Benzoic acid

b. Phenyl salicylate

c. Sodium benzoate

d. Salicylic acid

e. Acetylsalicylic acid

1925. Pharmacological properties and bioavailability of drugs is determined by their chemical structure. What medicinal substance contains simultaneously a carboxyl group and an ester group?

a. Phenyl salicylate

b. Benzoic acid

c. Acetylsalicylic acid

d. Sodium benzoate

e. Salicylic acid

1926. Pharmacological properties and bioavailability of drugs is determined by their chemical structure. What medicinal substance contains simultaneously a carboxyl group and an ester group?

a. Salicylic acid

b. Sodium benzoate

c. Phenyl salicylate

d. Acetylsalicylic acid

e. Benzoic acid

1927. Pharmacy as a healthcare facility fulfills three main functions. Its manufacturing function includes:

a. Preparation of individual formulations

b. Pharmaceutical care

c. Providing access to pharmaceutical information

d. Health education of the population

e. Storage of medical products

1928. Pharmacy as a healthcare facility fulfills three main functions. Its manufacturing function includes:

a. Preparation of individual formulations

b. Storage of medical products

c. Health education of the population

d. Pharmaceutical care

e. Providing access to pharmaceutical information

1929. Pharmacy as a healthcare facility fulfills three main functions. Its manufacturing function includes:

a. Pharmaceutical care

b. Storage of medical products

c. Providing access to pharmaceutical information

d. Preparation of individual formulations

e. Health education of the population

1930. Pharmacy assets can be divided into current and non-current. What should be classified as non-current assets when drawing up the balance sheet?

- a. Herbal raw materials
- b. Packaging

c. Buildings

d. Monetary funds

e. Goods

1931. Pharmacy assets can be divided into current and non-current. What should be classified as non-current assets when drawing up the balance sheet?

- a. Monetary funds
- b. Goods
- c. Herbal raw materials

d. Buildings

e. Packaging

1932. Pharmacy assets can be divided into current and non-current. What should be classified as non-current assets when drawing up the balance sheet?

- a. Packaging
- b. Goods
- c. Monetary funds

d. Buildings

e. Herbal raw materials

1933. Pharmacy employees receive their salary payments twice a month. What should the cashier do, if a pay day coincides with a holiday?

- a. There are no regulations regarding payment of salaries in this case
- b. To pay the salaries on the holiday
- c. To pay the salaries 10 days earlier

d. To pay the salaries one day earlier

e. To pay the salaries after the holiday

1934. Pharmacy employees receive their salary payments twice a month. What should the cashier do, if a pay day coincides with a holiday?

a. To pay the salaries 10 days earlier

b. To pay the salaries one day earlier

- c. There are no regulations regarding payment of salaries in this case
- d. To pay the salaries on the holiday
- e. To pay the salaries after the holiday

1935. Pharmacy employees receive their salary payments twice a month. What should the cashier do, if a pay day coincides with a holiday?

- a. To pay the salaries after the holiday
- b. To pay the salaries on the holiday
- c. There are no regulations regarding payment of salaries in this case
- d. To pay the salaries 10 days earlier

e. To pay the salaries one day earlier

1936. Pharmacy premises can be divided into service rooms and workrooms. Name the workroom for storage of medical products:

a. Material storage room

- b. Distillation room
- c. Shop floor
- d. Washing room
- e. Aseptic block

1937. Pharmacy premises can be divided into service rooms and workrooms. Name the workroom for storage of medical products:

a. Material storage room

b. Washing room

- c. Distillation room
- d. Aseptic block
- e. Shop floor

1938. Pharmacy premises can be divided into service rooms and workrooms. Name the workroom for storage of medical products:

- a. Aseptic block
- b. Distillation room
- c. Material storage room**
- d. Shop floor
- e. Washing room

1939. Pharmacy workers can receive an extra pay, if they combine several professions or positions, take upon themselves the duties of a temporarily absent employee, or have to manage an increased workload. In this case, the maximum possible bonus constitutes the following percentage of the employee's salary:

- a. 10%
- b. 50%**
- c. 20%
- d. 30%
- e. 40%

1940. Pharmacy workers can receive an extra pay, if they combine several professions or positions, take upon themselves the duties of a temporarily absent employee, or have to manage an increased workload. In this case, the maximum possible bonus constitutes the following percentage of the employee's salary:

- a. 30%
- b. 40%
- c. 20%
- d. 50%**
- e. 10%

1941. Pharmacy workers can receive an extra pay, if they combine several professions or positions, take upon themselves the duties of a temporarily absent employee, or have to manage an increased workload. In this case, the maximum possible bonus constitutes the following percentage of the employee's salary:

- a. 40%
- b. 20%
- c. 30%
- d. 10%
- e. 50%**

1942. Phenyllic salicylas can be identified by the smell of phenol that is produced when the following is added into the preparation:

- a. H₂SO₄**
- b. CuSO₄
- c. CoCl₂
- d. NaCl
- e. AgNO₃

1943. Phenyllic salicylas can be identified by the smell of phenol that is produced when the following is added into the preparation:

- a. AgNO₃
- b. NaCl
- c. CuSO₄
- d. H₂SO₄**
- e. CoCl₂

1944. Phenyllic salicylas can be identified by the smell of phenol that is produced when the following is added into the preparation:

- a. CoCl₂
- b. H₂SO₄**

- c. CuSO₄
- d. NaCl
- e. AgNO₃

1945. Phospholipids are used in medicine in production of hepatoprotectors. What oil is a source of phospholipids?

- a. Oleum Sojae
- b. Oleum Lini
- c. Oleum Cucurbitae
- d. Oleum Amygdalarum
- e. Oleum Ricini

1946. Phospholipids are used in medicine in production of hepatoprotectors. What oil is a source of phospholipids?

- a. Oleum Amygdalarum
- b. Oleum Lini
- c. Oleum Cucurbitae
- d. Oleum Sojae
- e. Oleum Ricini

1947. Phospholipids are used in medicine in production of hepatoprotectors. What oil is a source of phospholipids?

- a. Oleum Cucurbitae
- b. Oleum Ricini
- c. Oleum Sojae
- d. Oleum Lini
- e. Oleum Amygdalarum

1948. Phytochemical workshop of a factory manufactures pancreatin. What is the source material for obtaining pancreatin?

- a. Pancreas of pigs or cattle
- b. Gastric mucosa of pigs
- c. Heart of cattle
- d. Lungs of cattle
- e. Egg white

1949. Phytochemical workshop of a factory manufactures pancreatin. What is the source material for obtaining pancreatin?

- a. Pancreas of pigs or cattle
- b. Lungs of cattle
- c. Egg white
- d. Heart of cattle
- e. Gastric mucosa of pigs

1950. Phytochemical workshop of a factory manufactures pancreatin. What is the source material for obtaining pancreatin?

- a. Pancreas of pigs or cattle
- b. Lungs of cattle
- c. Heart of cattle
- d. Gastric mucosa of pigs
- e. Egg white

1951. Polemonium caeruleum rhizomes with roots are a source material for making expectorants. What group of substances causes this effect?

- a. Saponins
- b. Vitamins
- c. Anthraquinones
- d. Tannins
- e. Flavonoids

1952. Polemonium caeruleum rhizomes with roots are a source material for making expectorants. What group of substances causes this effect?

- a. Flavonoids

b. Saponins

- c. Tannins
- d. Anthraquinones
- e. Vitamins

1953. *Polemonium caeruleum* rhizomes with roots are a source material for making expectorants. What group of substances causes this effect?

- a. Vitamins
- b. Flavonoids

c. Saponins

- d. Anthraquinones
- e. Tannins

1954. Polyethylene oxide base belongs to the following group:

- a. Emulsion

b. Hydrophilic

- c. Fat
- d. Amphiphilic
- e. Hydrophobic

1955. Polyethylene oxide base belongs to the following group:

- a. Emulsion
- b. Fat

c. Hydrophilic

- d. Amphiphilic
- e. Hydrophobic

1956. Polyethylene oxide base belongs to the following group:

- a. Hydrophobic
- b. Emulsion
- c. Amphiphilic
- d. Fat

e. Hydrophilic

1957. Powder moisture content affects its:

a. Flowability

- b. Particle shape
- c. Solubility
- d. Particle size
- e. Homogeneity

1958. Powder moisture content affects its:

- a. Particle size
- b. Solubility

c. Flowability

- d. Homogeneity
- e. Particle shape

1959. Powder moisture content affects its:

- a. Solubility
- b. Particle size

c. Flowability

- d. Particle shape
- e. Homogeneity

1960. Powders are a solid dosage form for internal or external use. What stage is **NOT** a part of powder production?

a. Granulation

- b. Comminution
- c. Packing
- d. Sifting
- e. Mixing

1961. Powders are a solid dosage form for internal or external use. What stage is **NOT** a part of

powder production?

- a. Comminution
- b. Mixing
- c. Packing

d. Granulation

- e. Sifting

1962. Powders are a solid dosage form for internal or external use. What stage is **NOT** a part of powder production?

- a. Packing

b. Granulation

- c. Sifting
- d. Mixing
- e. Comminution

1963. Powders made with a certain medicinal substance need to be prepared at a separate workplace, using separate scales and mortar. Name this substance:

- a. Magnesium oxide
- b. Ascorbic acid

c. Xeroform (bismuth tribromphenolate and bismuth oxide complex)

- d. Zinc oxide
- e. Glucose

1964. Powders made with a certain medicinal substance need to be prepared at a separate workplace, using separate scales and mortar. Name this substance:

- a. Magnesium oxide
- b. Zinc oxide

c. Xeroform (bismuth tribromphenolate and bismuth oxide complex)

- d. Glucose
- e. Ascorbic acid

1965. Powders made with a certain medicinal substance need to be prepared at a separate workplace, using separate scales and mortar. Name this substance:

- a. Zinc oxide

b. Xeroform (bismuth tribromphenolate and bismuth oxide complex)

- c. Ascorbic acid
- d. Magnesium oxide
- e. Glucose

1966. Practically no microorganisms can develop in the sugar syrup, if its concentration is optimal. Why is it so?

a. Because osmotic pressure in the solution is higher than in the microbial cell

- b. Because of high pH
- c. Because of low pH
- d. Only because preservatives were added into the syrup
- e. Because of decreased surface tension between the solution and the microbial cell

1967. Practically no microorganisms can develop in the sugar syrup, if its concentration is optimal. Why is it so?

- a. Because of high pH
- b. Because of low pH
- c. Because of decreased surface tension between the solution and the microbial cell
- d. Only because preservatives were added into the syrup

e. Because osmotic pressure in the solution is higher than in the microbial cell

1968. Practically no microorganisms can develop in the sugar syrup, if its concentration is optimal. Why is it so?

- a. Only because preservatives were added into the syrup
- b. Because of high pH
- c. Because of decreased surface tension between the solution and the microbial cell
- d. Because osmotic pressure in the solution is higher than in the microbial cell**
- e. Because of low pH

1969. Preparations of Panax roots have tonic and adaptogenic properties and improve mental and physical working ability. If there is no Panax tincture in the pharmacy, it can be substituted with preparations of:

a. Glycyrrhizae radices

b. Araliae mandshuricae radices

c. Tormentillae radices

d. Taraxaci radices

e. Calami radices

1970. Preparations of Panax roots have tonic and adaptogenic properties and improve mental and physical working ability. If there is no Panax tincture in the pharmacy, it can be substituted with preparations of:

a. Tormentillae radices

b. Araliae mandshuricae radices

c. Calami radices

d. Glycyrrhizae radices

e. Taraxaci radices

1971. Preparations of Panax roots have tonic and adaptogenic properties and improve mental and physical working ability. If there is no Panax tincture in the pharmacy, it can be substituted with preparations of:

a. Calami radices

b. Araliae mandshuricae radices

c. Taraxaci radices

d. Glycyrrhizae radices

e. Tormentillae radices

1972. Preparations of sorrel roots can have both a laxative and astringent effect. This is due to the presence of the following biologically active substances:

a. Anthracene derivatives and tannins

b. Coumarins and phenol glycosides

c. Essential and fatty oils

d. Flavonoids and essential oils

e. Iridoids and vitamins

1973. Preparations of sorrel roots can have both a laxative and astringent effect. This is due to the presence of the following biologically active substances:

a. Coumarins and phenol glycosides

b. Essential and fatty oils

c. Iridoids and vitamins

d. Anthracene derivatives and tannins

e. Flavonoids and essential oils

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a. Essential and fatty oils

b. Coumarins and phenol glycosides

c. Iridoids and vitamins

d. Flavonoids and essential oils

e. Anthracene derivatives and tannins

1975. Prescriptions for psychotropic drugs remain in the pharmacy after the sale. How long must they be kept?

a. One month

b. Five years

c. Three years

d. The prescription must be returned to the patient

e. One year

1976. Prescriptions for psychotropic drugs remain in the pharmacy after the sale. How long must they be kept?

a. One month

- b. The prescription must be returned to the patient
- c. One year
- d. Three years

e. Five years

1977. Prescriptions for psychotropic drugs remain in the pharmacy after the sale. How long must they be kept?

- a. The prescription must be returned to the patient
- b. One year
- c. Three years
- d. One month

e. Five years

1978. Presence of nitrate radical in metronidazole structure can be confirmed by reduction of nitrate radical to amino group with production of:

a. Azo dye

- b. Iodoform
- c. Indophenol
- d. Murexide
- e. Thiochrome

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b. Azo dye

- c. Murexide
- d. Thiochrome
- e. Iodoform

1980. Presence of phenolic hydroxyl in the structure of pyridoxine hydrochloride can be confirmed by application of the following solution:

- a. Silver nitrate
- b. Sodium nitrite
- c. Potassium permanganate

d. Iron (III) chloride

e. Sodium sulfate

1981. Presence of phenolic hydroxyl in the structure of pyridoxine hydrochloride can be confirmed by application of the following solution:

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b. Iron (III) chloride

- c. Potassium permanganate
- d. Silver nitrate
- e. Sodium nitrite

1982. Presence of phenolic hydroxyl in the structure of pyridoxine hydrochloride can be confirmed by application of the following solution:

- a. Sodium sulfate
- b. Sodium nitrite

c. Iron (III) chloride

- d. Potassium permanganate
- e. Silver nitrate

1983. Prior to making a sodium chloride isotonic solution a pharmacist baked the powder in a dry heat box. What substances are removed by this operation?

a. Pyrogenic substances

- b. Redox substances
- c. Chlorides
- d. Moisture
- e. Sulfates

1984. Prior to making a sodium chloride isotonic solution a pharmacist baked the powder in a dry heat box. What substances are removed by this operation?

- a. Moisture
- b. Sulfates
- c. Chlorides

d. Pyrogenic substances

- e. Redox substances

1985. Prior to making a sodium chloride isotonic solution a pharmacist baked the powder in a dry heat box. What substances are removed by this operation?

- a. Sulfates

b. Pyrogenic substances

- c. Moisture
- d. Redox substances
- e. Chlorides

1986. Product sales manager of a pharmaceutical company was tasked with sales program inspection and given 10 days to complete this task. The manager completed this task within 5 days and expects to be rewarded with a bonus. What theory of achievement motivation is based on expectation of a certain event?

a. Vroom's expectancy theory

- b. McClelland's theory of needs
- c. McGregor's Theory X and Theory Y
- d. Herzberg's two-factor theory
- e. Maslow's hierarchy of needs

1987. Product sales manager of a pharmaceutical company was tasked with sales program inspection and given 10 days to complete this task. The manager completed this task within 5 days and expects to be rewarded with a bonus. What theory of achievement motivation is based on expectation of a certain event?

- a. McGregor's Theory X and Theory Y

b. Vroom's expectancy theory

- c. Maslow's hierarchy of needs
- d. McClelland's theory of needs
- e. Herzberg's two-factor theory

1988. Product sales manager of a pharmaceutical company was tasked with sales program inspection and given 10 days to complete this task. The manager completed this task within 5 days and expects to be rewarded with a bonus. What theory of achievement motivation is based on expectation of a certain event?

- a. McGregor's Theory X and Theory Y
- b. Maslow's hierarchy of needs

c. Vroom's expectancy theory

- d. Herzberg's two-factor theory
- e. McClelland's theory of needs

1989. Production of tablets requires stage-to-stage quality control. What devices are used to determine the particle size distribution (fraction) of granules?

a. Standard set of sieves

- b. Friabilators
- c. Various vibrosieves
- d. Microscope
- e. Laboratory identifiers

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- a. Various vibrosieves
- b. Microscope
- c. Standard set of sieves**
- d. Friabilators
- e. Laboratory identifiers

1992. Profitability is an economic parameter that characterizes the effectiveness of the pharmacy's commercial, financial, and manufacturing activity. What parameters are used to determine the profitability of sales?

- a. Profit turnover of goods**
- b. Turnover of goods cost price of products
- c. Cost price of products liquidity
- d. Liquidity solvency
- e. Turnover of goods wages

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- a. Turnover of goods wages
- b. Cost price of products liquidity
- c. Profit turnover of goods**
- d. Turnover of goods cost price of products
- e. Liquidity solvency

1995. Profitability is one of the economic indicators of the pharmacy's trading activity. It is calculated as a:

- a. Ratio of the sum of profits to the sum of cost price of the goods $\times 100\%$
- b. Ratio of the sum of profits to the sum of turnover $\times 100\%$**
- c. -
- d. Ratio of the sum of profits to the sum of expenses $\times 100\%$
- e. Ratio of the sum of profits to the total cost of fixed assets $\times 100\%$

1996. Profitability is one of the economic indicators of the pharmacy's trading activity. It is calculated as a:

- a. Ratio of the sum of profits to the sum of expenses $\times 100\%$
- b. Ratio of the sum of profits to the sum of turnover $\times 100\%$**
- c. -
- d. Ratio of the sum of profits to the total cost of fixed assets $\times 100\%$
- e. Ratio of the sum of profits to the sum of cost price of the goods $\times 100\%$

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- a. Ratio of the sum of profits to the total cost of fixed assets $\times 100\%$
- b. Ratio of the sum of profits to the sum of turnover $\times 100\%$**
- c. -
- d. Ratio of the sum of profits to the sum of cost price of the goods $\times 100\%$
- e. Ratio of the sum of profits to the sum of expenses $\times 100\%$

1998. Propellants are used in aerosols production. Specify the function of propellants:

- a. Action prolongation
- b. Create pressure in the package**
- c. Dispersion
- d. Emulsification

e. Stabilization

1999. Propellants are used in aerosols production. Specify the function of propellants:

- a. Dispersion
- b. Action prolongation
- c. Emulsification
- d. Stabilization

e. Create pressure in the package

2000. Propellants are used in aerosols production. Specify the function of propellants:

- a. Stabilization
- b. Action prolongation

c. Create pressure in the package

- d. Emulsification
- e. Dispersion

2001. Proper harvesting of Frangula alnus herbal raw material greatly influences the quality and quantity of its active substances. Therefore the optimal time for buckthorn bark harvesting is the period of:

a. Sap flow

- b. Flowering
- c. Defoliation
- d. Fruiting
- e. Dormancy

2002. Proper harvesting of Frangula alnus herbal raw material greatly influences the quality and quantity of its active substances. Therefore the optimal time for buckthorn bark harvesting is the period of:

a. Fruiting

b. Sap flow

- c. Flowering
- d. Dormancy
- e. Defoliation

2003. Proper harvesting of Frangula alnus herbal raw material greatly influences the quality and quantity of its active substances. Therefore the optimal time for buckthorn bark harvesting is the period of:

- a. Fruiting
- b. Flowering
- c. Dormancy

d. Sap flow

e. Defoliation

2004. Publicly-owned Isotope factory is the only manufacturer of radiopharmaceuticals in Ukraine. What type of distribution is characteristic of radioactive drugs?

a. Exclusive

- b. Bulk
- c. Selective
- d. Intensive
- e. Sample

2005. Publicly-owned Isotope factory is the only manufacturer of radiopharmaceuticals in Ukraine. What type of distribution is characteristic of radioactive drugs?

- a. Selective
- b. Sample
- c. Intensive

d. Exclusive

e. Bulk

2006. Publicly-owned Isotope factory is the only manufacturer of radiopharmaceuticals in Ukraine. What type of distribution is characteristic of radioactive drugs?

- a. Selective
- b. Sample

- c. Intensive
- d. Bulk

e. Exclusive

2007. Purpurea glycoside A and purpurea glycoside B are the main active substances of Digitalis purpurea. They belong to the following class of bioactive substances:

- a. Anthracene derivatives
- b. Flavonoids

c. Cardiac glycosides

- d. Alkaloids
- e. Phenolic compounds

2008. Purpurea glycoside A and purpurea glycoside B are the main active substances of Digitalis purpurea. They belong to the following class of bioactive substances:

- a. Phenolic compounds

b. Cardiac glycosides

- c. Flavonoids
- d. Alkaloids
- e. Anthracene derivatives

2009. Purpurea glycoside A and purpurea glycoside B are the main active substances of Digitalis purpurea. They belong to the following class of bioactive substances:

- a. Phenolic compounds
- b. Anthracene derivatives

c. Cardiac glycosides

- d. Alkaloids
- e. Flavonoids

2010. Pyridoxine hydrochloride and cyanocobalamin are not recommended to be administered in the same syringe due to their chemical incompatibility. What type of chemical reaction occurs between these compounds?

- a. Hydrolysis

b. Complexation

- c. Oxidation
- d. Reduction
- e. Neutralization

2011. Pyridoxine hydrochloride and cyanocobalamin are not recommended to be administered in the same syringe due to their chemical incompatibility. What type of chemical reaction occurs between these compounds?

- a. Neutralization
- b. Hydrolysis
- c. Oxidation
- d. Reduction

e. Complexation

2012. Pyridoxine hydrochloride and cyanocobalamin are not recommended to be administered in the same syringe due to their chemical incompatibility. What type of chemical reaction occurs between these compounds?

- a. Reduction

b. Complexation

- c. Hydrolysis
- d. Neutralization
- e. Oxidation

2013. Quality of dried extracts is assessed according to several criteria. Specify the highest acceptable amount of moisture in dried extracts according to the State Pharmacopoeia of Ukraine:

- a. 25%
- b. 20%

c. 5%

- d. 95%
- e. 75%

2014. Quality of dried extracts is assessed according to several criteria. Specify the highest acceptable amount of moisture in dried extracts according to the State Pharmacopoeia of Ukraine:

- a. 75%
- b. 20%
- c. 25%
- d. 95%

e. 5%

2015. Quality of dried extracts is assessed according to several criteria. Specify the highest acceptable amount of moisture in dried extracts according to the State Pharmacopoeia of Ukraine:

- a. 75%
- b. 25%

c. 5%

- d. 20%
- e. 95%

2016. Rectal suppositories, each containing 0.1 g of euphyllin (aminophylline), are being hand-rolled for the patient. What amount of vehicle should be taken for one suppository, if its mass is unspecified in the formulation?

- a. 1.9 g
- b. 2.9 g**
- c. 2.4 g
- d. 3.9 g
- e. 1.4 g

2017. Rectal suppositories, each containing 0.1 g of euphyllin (aminophylline), are being hand-rolled for the patient. What amount of vehicle should be taken for one suppository, if its mass is unspecified in the formulation?

- a. 2.4 g
- b. 1.9 g
- c. 3.9 g
- d. 2.9 g**
- e. 1.4 g

2018. Rectal suppositories, each containing 0.1 g of euphyllin (aminophylline), are being hand-rolled for the patient. What amount of vehicle should be taken for one suppository, if its mass is unspecified in the formulation?

- a. 3.9 g
- b. 1.4 g
- c. 2.4 g
- d. 1.9 g
- e. 2.9 g**

2019. Representatives of the family Solanaceae are widely used in medical practice as alkaloid-containing plants. Which representative is the source for production of semi-synthetic steroid hormones?

- a. Solanum laciniatum**
- b. Hyoscyamus niger
- c. Datura Stramonium
- d. Solanum tuberosum
- e. Atropa belladonna

2020. Representatives of the family Solanaceae are widely used in medical practice as alkaloid-containing plants. Which representative is the source for production of semi-synthetic steroid hormones?

- a. Datura Stramonium
- b. Atropa belladonna
- c. Hyoscyamus niger
- d. Solanum tuberosum
- e. Solanum laciniatum**

2021. Representatives of the family Solanaceae are widely used in medical practice as

alkaloid-containing plants. Which representative is the source for production of semi-synthetic steroid hormones?

- a. *Solanum tuberosum*
- b. *Solanum laciniatum***
- c. *Datura Stramonium*
- d. *Hyoscyamus niger*
- e. *Atropa belladonna*

2022. Representatives of two pharmaceutical companies - partners from Ukraine and China - for some time had communication problems due to the use of words and verbal symbols with different meanings. What caused the deformation of the communication process and hindered the exchange of information in this case?

- a. Lack of understanding of the information's importance
- b. Poor feedback
- c. Psychological distance
- d. Semantic barriers**
- e. Nonverbal barriers

2023. Representatives of two pharmaceutical companies - partners from Ukraine and China - for some time had communication problems due to the use of words and verbal symbols with different meanings. What caused the deformation of the communication process and hindered the exchange of information in this case?

- a. Lack of understanding of the information's importance
- b. Psychological distance
- c. Semantic barriers**
- d. Nonverbal barriers
- e. Poor feedback

2024. Representatives of two pharmaceutical companies - partners from Ukraine and China - for some time had communication problems due to the use of words and verbal symbols with different meanings. What caused the deformation of the communication process and hindered the exchange of information in this case?

- a. Nonverbal barriers
- b. Poor feedback
- c. Lack of understanding of the information's importance
- d. Psychological distance
- e. Semantic barriers**

2025. Reye syndrome (encephalopathy, fatty degeneration of liver) develops as a side effect in children suffering from fever of viral origin when they take the following medicine:

a. Acetylsalicylic acid

- b. Ibuprofen
- c. Paracetamol
- d. Celecoxib
- e. Metamizole sodium

2026. Reye syndrome (encephalopathy, fatty degeneration of liver) develops as a side effect in children suffering from fever of viral origin when they take the following medicine:

a. Acetylsalicylic acid

- b. Metamizole sodium
- c. Ibuprofen
- d. Celecoxib
- e. Paracetamol

2027. Reye syndrome (encephalopathy, fatty degeneration of liver) develops as a side effect in children suffering from fever of viral origin when they take the following medicine:

- a. Paracetamol
- b. Celecoxib
- c. Acetylsalicylic acid**
- d. Ibuprofen
- e. Metamizole sodium

2028. *Rhamnus cathartica* fruits contain anthracene derivatives. What qualitative reaction is used to determine the presence of these substances in a herbal raw material?

- a. Reaction with an alkali
- b. Reaction with Molisch reagent
- c. Reaction with iron(II) sulfate
- d. Reaction with ammonium iron(III) sulfate
- e. Reaction with Fehling reagent

2029. *Rhamnus cathartica* fruits contain anthracene derivatives. What qualitative reaction is used to determine the presence of these substances in a herbal raw material?

- a. Reaction with Molisch reagent
- b. Reaction with iron(II) sulfate
- c. Reaction with Fehling reagent

d. Reaction with an alkali

e. Reaction with ammonium iron(III) sulfate

2030. *Rhamnus cathartica* fruits contain anthracene derivatives. What qualitative reaction is used to determine the presence of these substances in a herbal raw material?

- a. Reaction with iron(II) sulfate
- b. Reaction with Molisch reagent
- c. Reaction with Fehling reagent
- d. Reaction with ammonium iron(III) sulfate

e. Reaction with an alkali

2031. *Sanguisorba officinalis* herbal raw material contains tannins. What method must be used to determine their content according to the State Pharmacopoeia of Ukraine?

a. Permanganatometry

- b. Nephelometry
- c. Spectrophotometry
- d. Chromatography
- e. Photoelectrocolorimetry

2032. *Sanguisorba officinalis* herbal raw material contains tannins. What method must be used to determine their content according to the State Pharmacopoeia of Ukraine?

a. Permanganatometry

- b. Spectrophotometry
- c. Chromatography
- d. Nephelometry
- e. Photoelectrocolorimetry

2033. *Sanguisorba officinalis* herbal raw material contains tannins. What method must be used to determine their content according to the State Pharmacopoeia of Ukraine?

- a. Photoelectrocolorimetry
- b. Chromatography

c. Permanganatometry

- d. Spectrophotometry
- e. Nephelometry

2034. Schedule of sanitation actions in pharmacies is regulated by the relevant regulatory acts. Cleaning day at a pharmacy must be scheduled at least once:

a. In a month

- b. In a week
- c. In 10 days
- d. In 3 days
- e. In 5 days

2035. Schedule of sanitation actions in pharmacies is regulated by the relevant regulatory acts. Cleaning day at a pharmacy must be scheduled at least once:

- a. In 10 days
- b. In a week
- c. In 3 days
- d. In a month

e. In 5 days

2036. Schedule of sanitation actions in pharmacies is regulated by the relevant regulatory acts. Cleaning day at a pharmacy must be scheduled at least once:

- a. In a week
- b. In 3 days
- c. In 10 days
- d. In 5 days

e. In a month

2037. Schisandra chinensis seeds contain lignans. What pharmacological effect will the preparations made of Schisandra chinensis have?

- a. Antitumor
- b. Reparative
- c. Hepatoprotective

d. Tonic

e. Sedative

2038. Schisandra chinensis seeds contain lignans. What pharmacological effect will the preparations made of Schisandra chinensis have?

- a. Hepatoprotective
- b. Antitumor
- c. Reparative

d. Tonic

e. Sedative

2039. Schisandra chinensis seeds contain lignans. What pharmacological effect will the preparations made of Schisandra chinensis have?

a. Reparative

b. Tonic

- c. Hepatoprotective
- d. Antitumor
- e. Sedative

2040. Select a non-steroid estrogen from the list below:

- a. Adrenalin
- b. Prednisolone
- c. Synoestrol (Hexestrol)**
- d. Progesterone
- e. Retabolil (Nandrolone)

2041. Select a non-steroid estrogen from the list below:

- a. Progesterone
- b. Retabolil (Nandrolone)
- c. Adrenalin
- d. Prednisolone

e. Synoestrol (Hexestrol)

2042. Select a non-steroid estrogen from the list below:

- a. Retabolil (Nandrolone)
- b. Adrenalin
- c. Progesterone
- d. Prednisolone

e. Synoestrol (Hexestrol)

2043. Select from the list a medical substance that is an indole derivative:

- a. Diazepam
- b. Dibazol (Bendazol)
- c. Glaucine hydrochloride
- d. Isoniazid

e. Indometacin

2044. Select from the list a medical substance that is an indole derivative:

- a. Glaucine hydrochloride

- b. Diazepam
- c. Isoniazid

d. Indometacin

- e. Dibazol (Bendazol)

2045. Select from the list a medical substance that is an indole derivative:

- a. Isoniazid

b. Indometacin

- c. Dibazol (Bendazol)
- d. Glaucine hydrochloride
- e. Diazepam

2046. Senna (cassia) foliage contains anthracene derivatives. Their presence can be confirmed by qualitative reaction with:

a. Alkali

- b. Fehling's reagent
- c. Molisch's reagent
- d. Iron ammonium alum
- e. Iron (II) sulfate

2047. Senna (cassia) foliage contains anthracene derivatives. Their presence can be confirmed by qualitative reaction with:

- a. Iron (II) sulfate
- b. Molisch's reagent

c. Alkali

- d. Fehling's reagent
- e. Iron ammonium alum

2048. Senna (cassia) foliage contains anthracene derivatives. Their presence can be confirmed by qualitative reaction with:

- a. Molisch's reagent
- b. Fehling's reagent

c. Alkali

- d. Iron ammonium alum
- e. Iron (II) sulfate

2049. Senna leaves decoction is being prepared in a pharmacy. The following is characteristic of the process of making an aqueous infusion of senna leaves:

a. Decoction is made and filtered after complete cooling

- b. Infusion is made by means of cold maceration
- c. Infusion is made in a slightly alkaline medium
- d. Infusion is made and acidated with hydrochloric acid
- e. Decoction is made and filtered immediately without cooling

2050. Senna leaves decoction is being prepared in a pharmacy. The following is characteristic of the process of making an aqueous infusion of senna leaves:

a. Decoction is made and filtered immediately without cooling

b. Decoction is made and filtered after complete cooling

- c. Infusion is made and acidated with hydrochloric acid
- d. Infusion is made in a slightly alkaline medium
- e. Infusion is made by means of cold maceration

2051. Senna leaves decoction is being prepared in a pharmacy. The following is characteristic of the process of making an aqueous infusion of senna leaves:

a. Decoction is made and filtered immediately without cooling

b. Decoction is made and filtered after complete cooling

- c. Infusion is made in a slightly alkaline medium
- d. Infusion is made by means of cold maceration
- e. Infusion is made and acidated with hydrochloric acid

2052. Several cholesterol gallstones are detected in the gallbladder of a woman. Choose the drug to dissolve and excrete the stones:

a. Ursodeoxycholic acid

- b. Domperidone
- c. Loperamide
- d. Platyphyllin
- e. Papaverine

2053. Several cholesterol gallstones are detected in the gallbladder of a woman. Choose the drug to dissolve and excrete the stones:

- a. Domperidone
- b. Papaverine
- c. Loperamide
- d. Platyphyllin

e. Ursodeoxycholic acid

2054. Several cholesterol gallstones are detected in the gallbladder of a woman. Choose the drug to dissolve and excrete the stones:

- a. Platyphyllin
- b. Papaverine

c. Ursodeoxycholic acid

- d. Domperidone
- e. Loperamide

2055. Several independent mediators work in resale of medical equipment. What group of mediators includes persons and legal entities that specialize in sales of durable goods that require considerable after-sales service?

a. Dealer

- b. Agent
- c. Broker
- d. Consignee
- e. Commission agent

2056. Several independent mediators work in resale of medical equipment. What group of mediators includes persons and legal entities that specialize in sales of durable goods that require considerable after-sales service?

- a. Agent
- b. Broker

c. Dealer

- d. Commission agent
- e. Consignee

2057. Several independent mediators work in resale of medical equipment. What group of mediators includes persons and legal entities that specialize in sales of durable goods that require considerable after-sales service?

- a. Agent
- b. Commission agent
- c. Broker

d. Dealer

- e. Consignee

2058. Several species of Polygonum genus are used in medicine. One of these species has rootstocks rich in tanning agents, which are used to treat diarrhea. Name this species:

a. Polygonum bistorta

- b. Polygonum persicaria
- c. Polygonum aviculare
- d. Polygonum hydropiper
- e. Polygonum alpinum

2059. Several species of Polygonum genus are used in medicine. One of these species has rootstocks rich in tanning agents, which are used to treat diarrhea. Name this species:

- a. Polygonum alpinum
- b. Polygonum aviculare

c. Polygonum bistorta

- d. Polygonum persicaria

e. *Polygonum hydropiper*

2060. Several species of *Polygonum* genus are used in medicine. One of these species has rootstocks rich in tanning agents, which are used to treat diarrhea. Name this species:

a. *Polygonum persicaria*

b. *Polygonum bistorta*

c. *Polygonum aviculare*

d. *Polygonum hydropiper*

e. *Polygonum alpinum*

2061. Silibor is a herbal drug that is used as a hepatoprotector. This drug is made from:

a. *Semina Sylibi*

b. *Herba Equiseti arvensis*

c. *Flores Centaureae cyani*

d. *Flores Crataegi*

e. *Flores Tanacetii*

2062. Silibor is a herbal drug that is used as a hepatoprotector. This drug is made from:

a. *Flores Crataegi*

b. *Flores Centaureae cyani*

c. *Herba Equiseti arvensis*

d. *Semina Sylibi*

e. *Flores Tanacetii*

2063. Silibor is a herbal drug that is used as a hepatoprotector. This drug is made from:

a. *Flores Tanacetii*

b. *Semina Sylibi*

c. *Herba Equiseti arvensis*

d. *Flores Centaureae cyani*

e. *Flores Crataegi*

2064. Simultaneous application of doxycycline hydrochloride and oral contraceptive causes:

a. -

b. Increase of the antibacterial effect of doxycycline

c. Reduction of oral contraceptives effectiveness

d. Increase of oral contraceptives effectiveness

e. Reduction of the antibacterial effect of doxycycline

2065. Simultaneous application of doxycycline hydrochloride and oral contraceptive causes:

a. Increase of oral contraceptives effectiveness

b. -

c. Reduction of the antibacterial effect of doxycycline

d. Reduction of oral contraceptives effectiveness

e. Increase of the antibacterial effect of doxycycline

2066. Simultaneous application of doxycycline hydrochloride and oral contraceptive causes:

a. Increase of the antibacterial effect of doxycycline

b. -

c. Increase of oral contraceptives effectiveness

d. Reduction of oral contraceptives effectiveness

e. Reduction of the antibacterial effect of doxycycline

2067. Snake venom-based drugs are widely applied in treatment of locomotor apparatus diseases.

Main components of these venoms are:

a. Toxic proteins

b. Phenol-alcohols

c. Alkaloids

d. Cardiac glycosides

e. Glucosinolates

2068. Snake venom-based drugs are widely applied in treatment of locomotor apparatus diseases.

Main components of these venoms are:

a. Cardiac glycosides

b. Toxic proteins

- c. Phenol-alcohols
- d. Alkaloids
- e. Glucosinolates

2069. Snake venom-based drugs are widely applied in treatment of locomotor apparatus diseases. Main components of these venoms are:

a. Phenol-alcohols

b. Toxic proteins

- c. Alkaloids
- d. Glucosinolates
- e. Cardiac glycosides

2070. Sodium and potassium oxides are introduced into the ampoule glass to:

a. Decrease its melting point

- b. Increase its mechanical stability
- c. Increase its thermal stability
- d. Increase its dimming ability
- e. Increase its chemical stability

2071. Sodium and potassium oxides are introduced into the ampoule glass to:

- a. Increase its dimming ability
- b. Increase its thermal stability
- c. Increase its mechanical stability

d. Decrease its melting point

e. Increase its chemical stability

2072. Sodium and potassium oxides are introduced into the ampoule glass to:

- a. Increase its thermal stability
- b. Increase its mechanical stability
- c. Increase its dimming ability

d. Decrease its melting point

e. Increase its chemical stability

2073. Soft gelatin capsules with an elongated neck are called:

a. Tubatines

- b. Rectal capsules
- c. Medules
- d. Microcapsules
- e. Spansules

2074. Soft gelatin capsules with an elongated neck are called:

a. Medules

b. Tubatines

- c. Spansules
- d. Microcapsules
- e. Rectal capsules

2075. Soft gelatin capsules with an elongated neck are called:

a. Microcapsules

b. Tubatines

- c. Medules
- d. Spansules
- e. Rectal capsules

2076. Solutions of protected forms of colloids are used in medical practice. What substance is a protected colloid?

a. Protargol

- b. Basic bismuth nitrate
- c. Potassium iodide
- d. Sodium chloride
- e. Camphor

2077. Solutions of protected forms of colloids are used in medical practice. What substance is a protected colloid?

a. Basic bismuth nitrate

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c. Camphor

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2078. Solutions of protected forms of colloids are used in medical practice. What substance is a protected colloid?

a. Sodium chloride

b. Camphor

c. Protargol

d. Basic bismuth nitrate

e. Potassium iodide

2079. Specialists of a pharmaceutical enterprise confirm the identity of *Cassia acutifolia* herbal raw material. During reaction with alkali it developed cherry-red coloring. What substances were identified?

a. Alkaloids

b. Anthraquinones

c. Glycosides

d. Tannins

e. Iridoids

2080. Specialists of a pharmaceutical enterprise confirm the identity of *Cassia acutifolia* herbal raw material. During reaction with alkali it developed cherry-red coloring. What substances were identified?

a. Iridoids

b. Tannins

c. Alkaloids

d. Anthraquinones

e. Glycosides

2081. Specialists of a pharmaceutical enterprise confirm the identity of *Cassia acutifolia* herbal raw material. During reaction with alkali it developed cherry-red coloring. What substances were identified?

a. Tannins

b. Iridoids

c. Glycosides

d. Alkaloids

e. Anthraquinones

2082. Specify a potent herbal raw material, infusion from which is made in 1:400 ratio:

a. Foxglove leaves

b. Althaea roots

c. Motherwort grass

d. Valerian roots and rhizomes

e. Sage leaves

2083. Specify a potent herbal raw material, infusion from which is made in 1:400 ratio:

a. Althaea roots

b. Valerian roots and rhizomes

c. Foxglove leaves

d. Sage leaves

e. Motherwort grass

2084. Specify a potent herbal raw material, infusion from which is made in 1:400 ratio:

a. Motherwort grass

b. Valerian roots and rhizomes

c. Foxglove leaves

d. Althaea roots

e. Sage leaves

2085. Specify the control methods aimed at detecting mechanical impurities in parenteral solutions:

a. Amperometric

b. Visual optical

c. NMR and UV-visible spectroscopy

d. Gravitational

e. Limulus test

2086. Specify the control methods aimed at detecting mechanical impurities in parenteral solutions:

a. NMR and UV-visible spectroscopy

b. Visual optical

c. Limulus test

d. Amperometric

e. Gravitational

2087. Specify the control methods aimed at detecting mechanical impurities in parenteral solutions:

a. NMR and UV-visible spectroscopy

b. Limulus test

c. Amperometric

d. Gravitational

e. Visual optical

2088. Specify the drugs recommended for prevention and correction of dysbiotic problems caused by antibiotic therapy:

a. Probiotics

b. Antacids

c. Prokinetics

d. Choloretics

e. Uroseptics

2089. Specify the drugs recommended for prevention and correction of dysbiotic problems caused by antibiotic therapy:

a. Prokinetics

b. Probiotics

c. Antacids

d. Choloretics

e. Uroseptics

2090. Specify the drugs recommended for prevention and correction of dysbiotic problems caused by antibiotic therapy:

a. Prokinetics

b. Uroseptics

c. Antacids

d. Choloretics

e. Probiotics

2091. Specify the fluid used to coat the forms for pouring of the suppositories with hydrophilic vehicles:

a. Dimethylsulfoxide

b. Purified water

c. Glycerine

d. Vaseline (petroleum jelly)

e. Glycerine-water solution

2092. Specify the fluid used to coat the forms for pouring of the suppositories with hydrophilic vehicles:

a. Glycerine

b. Purified water

c. Dimethylsulfoxide

d. Glycerine-water solution

e. Vaseline (petroleum jelly)

2093. Specify the fluid used to coat the forms for pouring of the suppositories with hydrophilic vehicles:

a. Purified water

b. Dimethylsulfoxide

c. Vaseline (petroleum jelly)

d. Glycerine

e. Glycerine-water solution

2094. Specify the formula of extractant calculation in the process of creating a tincture:

a. $V = V_{\text{tincture}} + m_{\text{raw material}} \cdot K_{\text{alcohol absorption}}$

b. $m_{\text{raw material}} = m_{\text{end product}} + m_{\text{losses}}$

c. $V = V_{\text{tincture}} \cdot n + m_{\text{raw material}} \cdot K_{\text{alcohol absorption}}$

d. $\mu = \frac{m_{\text{end product}}}{m_{\text{raw material}}} \cdot 100\%$

e. $E = \frac{m_{\text{losses}}}{m_{\text{raw material}}} \cdot 100\%$

2095. Specify the formula of extractant calculation in the process of creating a tincture:

a. $E = \frac{m_{\text{losses}}}{m_{\text{raw material}}} \cdot 100\%$

b. $\mu = \frac{m_{\text{end product}}}{m_{\text{raw material}}} \cdot 100\%$

c. $m_{\text{raw material}} = m_{\text{end product}} + m_{\text{losses}}$

d. $V = V_{\text{tincture}} \cdot n + m_{\text{raw material}} \cdot K_{\text{alcohol absorption}}$

e. $V = V_{\text{tincture}} + m_{\text{raw material}} \cdot K_{\text{alcohol absorption}}$

2096. Specify the formula of extractant calculation in the process of creating a tincture:

a. $\mu = \frac{m_{\text{end product}}}{m_{\text{raw material}}} \cdot 100\%$

b. $V = V_{\text{tincture}} + m_{\text{raw material}} \cdot K_{\text{alcohol absorption}}$

c. $V = V_{\text{tincture}} \cdot n + m_{\text{raw material}} \cdot K_{\text{alcohol absorption}}$

d. $E = \frac{m_{\text{losses}}}{m_{\text{raw material}}} \cdot 100\%$

e. $m_{\text{raw material}} = m_{\text{end product}} + m_{\text{losses}}$

2097. Specify the indicator that measures the total contribution of various solutes to the osmotic pressure of the solution:

a. Osmolality

b. Isohydricity

c. Isoviscosity

d. Isotonicity

e. Apyrogenicity

2098. Specify the indicator that measures the total contribution of various solutes to the osmotic pressure of the solution:

a. Isohydricity

b. Isotonicity

c. Isoviscosity

d. Osmolality

e. Apyrogenicity

2099. Specify the indicator that measures the total contribution of various solutes to the osmotic pressure of the solution:

a. Isotonicity

b. Isoviscosity

c. Isohydricity

d. Apyrogenicity

e. Osmolality

2100. Specify the isotonic concentration of a sodium chloride solution:

a. 0.9%

b. 1.0%

c. 5.0%

d. 1.8%

e. 10.0%

2101. Specify the isotonic concentration of a sodium chloride solution:

a. 10.0%

b. 1.0%

c. 1.8%

d. 0.9%

e. 5.0%

2102. Specify the optimal method for industrial production of suppositories:

a. Pouring into moulds

b. Pressing

c. Lyophilization

d. Hand-rolling

e. Stamping

2103. Specify the optimal method for industrial production of suppositories:

a. Lyophilization

b. Stamping

c. Pouring into moulds

d. Hand-rolling

e. Pressing

2104. Specify the optimal method for industrial production of suppositories:

a. Pressing

b. Hand-rolling

c. Stamping

d. Lyophilization

e. Pouring into moulds

2105. Spectrophotometric analysis of anthracene derivatives contained in buckthorn bark is based on the following reaction:

a. Anthraquinone reduction

b. Sublimation

c. Oxidation of anthracene derivatives

d. Production of phenolates with alkali-ammonia solution

e. Salt precipitation

2106. Spectrophotometric analysis of anthracene derivatives contained in buckthorn bark is based on the following reaction:

a. Sublimation

b. Production of phenolates with alkali-ammonia solution

c. Anthraquinone reduction

d. Oxidation of anthracene derivatives

e. Salt precipitation

2107. Spectrophotometric analysis of anthracene derivatives contained in buckthorn bark is based on the following reaction:

a. Sublimation

b. Oxidation of anthracene derivatives

c. Anthraquinone reduction

d. Production of phenolates with alkali-ammonia solution

e. Salt precipitation

2108. Standard herbal material of lily-of-the-valley is obtained by drying it at a temperature of 50-60°C to prevent the following possible biochemical process:

a. Enzymatic hydrolysis of cardiac glycosides

b. Oxidation of resins

c. Oxidation of terpenoids

d. Volatilization of essential oils

e. Oxidation of phenolic compounds

2109. Standard herbal material of lily-of-the-valley is obtained by drying it at a temperature of 50-60°C to prevent the following possible biochemical process:

a. Oxidation of terpenoids

b. Oxidation of phenolic compounds

c. Enzymatic hydrolysis of cardiac glycosides

d. Oxidation of resins

e. Volatilization of essential oils

2110. Standard herbal material of lily-of-the-valley is obtained by drying it at a temperature of 50-60°C to prevent the following possible biochemical process:

- a. Oxidation of terpenoids
- b. Oxidation of resins
- c. Volatilization of essential oils

d. Enzymatic hydrolysis of cardiac glycosides

- e. Oxidation of phenolic compounds

2111. Standard stactometer divides 1 ml of water into:

a. 20 drops

- b. 25 drops
- c. 10 drops
- d. 30 drops
- e. 15 drops

2112. Standard stactometer divides 1 ml of water into:

- a. 25 drops
- b. 10 drops
- c. 15 drops

d. 20 drops

- e. 30 drops

2113. Standard stactometer divides 1 ml of water into:

- a. 25 drops
- b. 15 drops
- c. 30 drops
- d. 10 drops

e. 20 drops

2114. Standardization of a certain herbal raw material is done by calculating its alkaloid content in terms of hyoscyamine. Name this herbal raw material:

a. Fructus Capsici

b. Folia Belladonnae

- c. Herba Thermopsidis lanceolatae
- d. Herba Chelidonii
- e. Radices Berberidis

2115. Standardization of a certain herbal raw material is done by calculating its alkaloid content in terms of hyoscyamine. Name this herbal raw material:

- a. Herba Thermopsidis lanceolatae
- b. Fructus Capsici
- c. Herba Chelidonii

d. Folia Belladonnae

- e. Radices Berberidis

2116. Standardization of a certain herbal raw material is done by calculating its alkaloid content in terms of hyoscyamine. Name this herbal raw material:

- a. Herba Thermopsidis lanceolatae
- b. Radices Berberidis
- c. Herba Chelidonii
- d. Fructus Capsici

e. Folia Belladonnae

2117. Storage of medical products in pharmacies is carried out in compliance with the law. What relative humidity is necessary for storage of rubber products to prevent their drying and deformation?

a. At least 65%

- b. At least 40%
- c. At least 30%
- d. At least 50%
- e. At least 20%

2118. Storage of medical products in pharmacies is carried out in compliance with the law. What relative humidity is necessary for storage of rubber products to prevent their drying and deformation?

- a. At least 20%
- b. At least 30%

c. At least 65%

d. At least 50%

e. At least 40%

2119. Storage of medical products in pharmacies is carried out in compliance with the law. What relative humidity is necessary for storage of rubber products to prevent their drying and deformation?

a. At least 30%

b. At least 65%

c. At least 40%

d. At least 20%

e. At least 50%

2120. Strategic planning of pharmaceutical companies consists of several consecutive stages. What stage is the final one?

a. Choice of strategy

b. Strategy assessment

c. Setting goals and tasks

d. Analysis of organisation's internal strength and weaknesses

e. Environment assessment and analysis

2121. Strategic planning of pharmaceutical companies consists of several consecutive stages. What stage is the final one?

a. Choice of strategy

b. Setting goals and tasks

c. Strategy assessment

d. Environment assessment and analysis

e. Analysis of organisation's internal strength and weaknesses

2122. Strategic planning of pharmaceutical companies consists of several consecutive stages. What stage is the final one?

a. Setting goals and tasks

b. Analysis of organisation's internal strength and weaknesses

c. Choice of strategy

d. Environment assessment and analysis

e. Strategy assessment

2123. Suspension stability increases, when the substances that increase the viscosity of a continuous medium are introduced to a suspension. Specify a substance that has such a property:

a. Atropa belladonna tincture

b. Glycerine

c. Purified water

d. Dimexide (dimethyl sulfoxide)

e. Ethyl alcohol

2124. Suspension stability increases, when the substances that increase the viscosity of a continuous medium are introduced to a suspension. Specify a substance that has such a property:

a. Ethyl alcohol

b. Glycerine

c. Purified water

d. Dimexide (dimethyl sulfoxide)

e. Atropa belladonna tincture

2125. Suspension stability increases, when the substances that increase the viscosity of a continuous medium are introduced to a suspension. Specify a substance that has such a property:

a. Ethyl alcohol

b. Purified water

c. Dimexide (dimethyl sulfoxide)

d. Glycerine

e. Atropa belladonna tincture

2126. Taxes can be divided into direct and indirect. Select an indirect tax from the list:

a. Value added tax

b. Individual income tax

- c. Corporate income tax
- d. Rent
- e. Real estate tax

2127. Taxes can be divided into direct and indirect. Select an indirect tax from the list:

- a. Corporate income tax
- b. Value added tax**
- c. Rent
- d. Individual income tax
- e. Real estate tax

2128. Taxes can be divided into direct and indirect. Select an indirect tax from the list:

- a. Real estate tax
- b. Rent
- c. Individual income tax
- d. Corporate income tax
- e. Value added tax**

2129. Tell the patient, what side effect is associated with systemic glucocorticosteroid therapy.

- a. Osteoporosis**
- b. Hypoglycemia
- c. Hypotension
- d. Jaundice
- e. Constipation

2130. Tell the patient, what side effect is associated with systemic glucocorticosteroid therapy.

- a. Hypoglycemia
- b. Jaundice
- c. Osteoporosis**
- d. Hypotension
- e. Constipation

2131. Tell the patient, what side effect is associated with systemic glucocorticosteroid therapy.

- a. Jaundice
- b. Hypoglycemia
- c. Constipation
- d. Osteoporosis**
- e. Hypotension

2132. Testing of a calcium lactate pentahydrate substance requires a reaction with a solution of thioglycolic acid in the presence of citric acid and an ammonia solution. What impurity can be detected using this reaction?

- a. Iron**
- b. Chlorides
- c. Ammonium salts
- d. Potassium
- e. Sulfates

2133. Testing of a calcium lactate pentahydrate substance requires a reaction with a solution of thioglycolic acid in the presence of citric acid and an ammonia solution. What impurity can be detected using this reaction?

- a. Chlorides
- b. Potassium
- c. Sulfates
- d. Ammonium salts
- e. Iron**

2134. Testing of a calcium lactate pentahydrate substance requires a reaction with a solution of thioglycolic acid in the presence of citric acid and an ammonia solution. What impurity can be detected using this reaction?

- a. Potassium
- b. Chlorides
- c. Iron**

- d. Sulfates
- e. Ammonium salts

2135. The "Aromeline" phytodrug exhibits P-vitamin activity. What herbal raw material is used in production of this drug?

- a. Fructus Aroniae melanocarpae**
- b. Fructus Crataegi
- c. Fructus Sambuci nigrae
- d. Fructus Viburni
- e. Fructus Sorbi

2136. The "Aromeline" phytodrug exhibits P-vitamin activity. What herbal raw material is used in production of this drug?

- a. Fructus Crataegi
- b. Fructus Aroniae melanocarpae**
- c. Fructus Sorbi
- d. Fructus Sambuci nigrae
- e. Fructus Viburni

2137. The "Aromeline" phytodrug exhibits P-vitamin activity. What herbal raw material is used in production of this drug?

- a. Fructus Viburni
- b. Fructus Sorbi
- c. Fructus Aroniae melanocarpae**
- d. Fructus Sambuci nigrae
- e. Fructus Crataegi

2138. The "Bon-pharn" pharmaceutical company due to its constant financial support of international sports competitions became well-known in Ukraine and the neighbouring countries. What type of activity is described in this case?

- a. Direct marketing
- b. Sponsorship**
- c. Publicity
- d. Lobbying
- e. Product promotion

2139. The "Bon-pharn" pharmaceutical company due to its constant financial support of international sports competitions became well-known in Ukraine and the neighbouring countries. What type of activity is described in this case?

- a. Direct marketing
- b. Product promotion
- c. Publicity
- d. Lobbying
- e. Sponsorship**

2140. The "Bon-pharn" pharmaceutical company due to its constant financial support of international sports competitions became well-known in Ukraine and the neighbouring countries. What type of activity is described in this case?

- a. Product promotion
- b. Direct marketing
- c. Sponsorship**
- d. Lobbying
- e. Publicity

2141. The "Dr Ram" pharmaceutical company organizes scientific conferences and workshops for doctors and pharmaceutical workers. What element of marketing communications is used by this pharmaceutical company?

- a. Public relations**
- b. Personal selling
- c. Sales stimulation
- d. Direct marketing
- e. Merchandising

2142. The "Dr Ram" pharmaceutical company organizes scientific conferences and workshops for doctors and pharmaceutical workers. What element of marketing communications is used by this pharmaceutical company?

a. Sales stimulation

b. Public relations

c. Personal selling

d. Direct marketing

e. Merchandising

2143. The "Dr Ram" pharmaceutical company organizes scientific conferences and workshops for doctors and pharmaceutical workers. What element of marketing communications is used by this pharmaceutical company?

a. Sales stimulation

b. Personal selling

c. Direct marketing

d. Public relations

e. Merchandising

2144. The "Medpharm" wholesale pharmaceutical firm employs a system that encourages its managers to achieve better results in sales by assigning them points for surpassing their sale goals. The points then become converted into material remuneration. This way the company management carries out the following management function:

a. Motivation

b. Delegation

c. Control

d. Planning

e. Organization

2145. The "Medpharm" wholesale pharmaceutical firm employs a system that encourages its managers to achieve better results in sales by assigning them points for surpassing their sale goals. The points then become converted into material remuneration. This way the company management carries out the following management function:

a. Motivation

b. Delegation

c. Planning

d. Organization

e. Control

2146. The "Medpharm" wholesale pharmaceutical firm employs a system that encourages its managers to achieve better results in sales by assigning them points for surpassing their sale goals. The points then become converted into material remuneration. This way the company management carries out the following management function:

a. Control

b. Motivation

c. Planning

d. Delegation

e. Organization

2147. The "Pharmastar" pharmaceutical company develops new dosage forms for its medicines. What type of product policy in marketing is it?

a. Modernization

b. Reduction

c. Product modification

d. Differentiation

e. Diversification

2148. The "Pharmastar" pharmaceutical company develops new dosage forms for its medicines. What type of product policy in marketing is it?

a. Modernization

b. Reduction

c. Product modification

- d. Diversification
- e. Differentiation

2149. The "Pharmastar" pharmaceutical company develops new dosage forms for its medicines. What type of product policy in marketing is it?

- a. Reduction
- b. Differentiation
- c. Product modification**

- d. Modernization
- e. Diversification

2150. The <<Violet>> pharmacy chain operates in the pharmaceutical market for over 20 years. In difficult market environment, the company's management actively uses elements of crisis management, diversification, and attraction of investments. What component of the successful activity of the pharmaceutical organization does the company provide?

- a. Survival**
- b. Effectiveness
- c. Productivity
- d. Practical implementation of management decisions
- e. Efficiency

2151. The <<Violet>> pharmacy chain operates in the pharmaceutical market for over 20 years. In difficult market environment, the company's management actively uses elements of crisis management, diversification, and attraction of investments. What component of the successful activity of the pharmaceutical organization does the company provide?

- a. Practical implementation of management decisions
- b. Productivity
- c. Effectiveness
- d. Efficiency

e. Survival

2152. The <<Violet>> pharmacy chain operates in the pharmaceutical market for over 20 years. In difficult market environment, the company's management actively uses elements of crisis management, diversification, and attraction of investments. What component of the successful activity of the pharmaceutical organization does the company provide?

- a. Productivity
- b. Effectiveness
- c. Efficiency

d. Survival

- e. Practical implementation of management decisions

2153. The Dobropharma pharmacy manager makes plans for standard stock of various groups of goods, based on their purpose. Convenience goods belong to the following group:

- a. Seasonal accumulation

b. Current demand

- c. Specific demand
- d. Prior delivery
- e. Single delivery

2154. The Dobropharma pharmacy manager makes plans for standard stock of various groups of goods, based on their purpose. Convenience goods belong to the following group:

- a. Single delivery
- b. Seasonal accumulation

c. Current demand

- d. Prior delivery
- e. Specific demand

2155. The Dobropharma pharmacy manager makes plans for standard stock of various groups of goods, based on their purpose. Convenience goods belong to the following group:

- a. Single delivery
- b. Seasonal accumulation

c. Current demand

- d. Specific demand
- e. Prior delivery

2156. The Income Statement of a pharmacy for the first quarter of 20XX contains the following entries: goods turnover - 45 000 UAH, production cost of products sold - 30 000 UAH, turnover costs - 10 000 UAH. Determine the income:

- a. 5 000 UAH**
- b. 35 000 UAH
- c. 15 000 UAH
- d. 40 000 UAH
- e. 30 000 UAH

2157. The Income Statement of a pharmacy for the first quarter of 20XX contains the following entries: goods turnover - 45 000 UAH, production cost of products sold - 30 000 UAH, turnover costs - 10 000 UAH. Determine the income:

- a. 35 000 UAH
- b. 15 000 UAH
- c. 40 000 UAH
- d. 30 000 UAH

e. 5 000 UAH

2158. The Income Statement of a pharmacy for the first quarter of 20XX contains the following entries: goods turnover - 45 000 UAH, production cost of products sold - 30 000 UAH, turnover costs - 10 000 UAH. Determine the income:

- a. 40 000 UAH
- b. 30 000 UAH
- c. 35 000 UAH

d. 5 000 UAH

e. 15 000 UAH

2159. The addition of preservatives and stabilizers is prohibited, when making the following dosage forms:

a. Dosage forms for newborns

- b. Emulsions
- c. Suspensions
- d. Ophthalmic dosage forms
- e. Infusions

2160. The addition of preservatives and stabilizers is prohibited, when making the following dosage forms:

- a. Ophthalmic dosage forms
- b. Suspensions
- c. Emulsions
- d. Infusions

e. Dosage forms for newborns

2161. The addition of preservatives and stabilizers is prohibited, when making the following dosage forms:

- a. Suspensions
- b. Infusions
- c. Ophthalmic dosage forms
- d. Emulsions

e. Dosage forms for newborns

2162. The amount of temporary disability benefits to be paid is calculated taking into account the insured record of service of an employee. What percentage of temporary disability benefits will be paid to an employee with a disability certificate and more than 8-year-long insured record of service?

- a. 100% of salary**
- b. 50% of salary
- c. 90% of salary
- d. 75% of salary
- e. 60% of salary

2163. The amount of temporary disability benefits to be paid is calculated taking into account the insured record of service of an employee. What percentage of temporary disability benefits will be paid to an employee with a disability certificate and more than 8-year-long insured record of service?

- a. 50% of salary
- b. 90% of salary
- c. 75% of salary
- d. 100% of salary**
- e. 60% of salary

2164. The amount of temporary disability benefits to be paid is calculated taking into account the insured record of service of an employee. What percentage of temporary disability benefits will be paid to an employee with a disability certificate and more than 8-year-long insured record of service?

- a. 90% of salary
- b. 100% of salary**
- c. 50% of salary
- d. 60% of salary
- e. 75% of salary

2165. The ampoule workshop of a factory produces a 5% oil-based solution of tocopherol acetate for injections. What filling technique should be used to fill the ampoules with this solution?

- a. Syringe and vapor condensation
- b. Vapor condensation
- c. Syringe**
- d. Syringe and vacuum
- e. Vacuum

2166. The ampoule workshop of a factory produces a 5% oil-based solution of tocopherol acetate for injections. What filling technique should be used to fill the ampoules with this solution?

- a. Vacuum
- b. Vapor condensation
- c. Syringe and vapor condensation
- d. Syringe**
- e. Syringe and vacuum

2167. The ampoule workshop of a factory produces a 5% oil-based solution of tocopherol acetate for injections. What filling technique should be used to fill the ampoules with this solution?

- a. Vapor condensation
- b. Vacuum
- c. Syringe**
- d. Syringe and vapor condensation
- e. Syringe and vacuum

2168. The analyst determines quantitative content of sodium benzoate by means of acidimetry in non-aqueous medium according to the State Pharmacopoeia of Ukraine. What reagent is used as a solvent in this case?

- a. Anhydrous acetic acid**
- b. Sulfanilic acid
- c. Concentrated sulfuric acid
- d. Dimethyl formamide
- e. Pyridine

2169. The analyst determines quantitative content of sodium benzoate by means of acidimetry in non-aqueous medium according to the State Pharmacopoeia of Ukraine. What reagent is used as a solvent in this case?

- a. Dimethyl formamide
- b. Anhydrous acetic acid**
- c. Sulfanilic acid
- d. Pyridine
- e. Concentrated sulfuric acid

2170. The analyst determines quantitative content of sodium benzoate by means of acidimetry in non-aqueous medium according to the State Pharmacopoeia of Ukraine. What reagent is used as a

solvent in this case?

- a. Pyridine
- b. Sulfanilic acid
- c. Anhydrous acetic acid**
- d. Dimethyl formamide
- e. Concentrated sulfuric acid

2171. The analytical laboratory received calcium chloride. What volumetric solution should be used for quantitative determination of this medicinal substance?

- a. Sodium edetate**
- b. Potassium bromate
- c. Sodium hydroxide
- d. Hydrochloric acid
- e. Potassium permanganate

2172. The analytical laboratory received calcium chloride. What volumetric solution should be used for quantitative determination of this medicinal substance?

- a. Sodium edetate**
- b. Potassium permanganate
- c. Sodium hydroxide
- d. Hydrochloric acid
- e. Potassium bromate

2173. The analytical laboratory received calcium chloride. What volumetric solution should be used for quantitative determination of this medicinal substance?

- a. Potassium permanganate
- b. Hydrochloric acid
- c. Sodium hydroxide
- d. Sodium edetate**
- e. Potassium bromate

2174. The calculation of isotonic concentration using the cryoscopic method is based on the following law:

- a. -
- b. Raoult's law**
- c. Clapeyron-Mendeleev equation
- d. Boyle-Mariotte law
- e. Dalton's law

2175. The calculation of isotonic concentration using the cryoscopic method is based on the following law:

- a. Dalton's law
- b. -
- c. Raoult's law**
- d. Clapeyron-Mendeleev equation
- e. Boyle-Mariotte law

2176. The calculation of isotonic concentration using the cryoscopic method is based on the following law:

- a. Dalton's law
- b. -
- c. Boyle-Mariotte law
- d. Raoult's law**
- e. Clapeyron-Mendeleev equation

2177. The cashier of a pharmacy must record all receipt and withdrawal cash transactions in the relevant documents. What document must be drawn up for issuing cash sums to be accounted for?

- a. Disbursement cash order**
- b. Cashier's check
- c. Expense invoice
- d. Receipt for issuing money
- e. Profit invoice

2178. The cashier of a pharmacy must record all receipt and withdrawal cash transactions in the relevant documents. What document must be drawn up for issuing cash sums to be accounted for?

- a. Cashier's check
- b. Expense invoice
- c. Profit invoice
- d. Disbursement cash order**
- e. Receipt for issuing money

2179. The cashier of a pharmacy must record all receipt and withdrawal cash transactions in the relevant documents. What document must be drawn up for issuing cash sums to be accounted for?

- a. Profit invoice
- b. Expense invoice
- c. Receipt for issuing money
- d. Cashier's check
- e. Disbursement cash order**

2180. The chemical name of 2,2-(diphenylmethoxy)-N,N-dimethyl-ethanamine hydrochloride corresponds with the following medicinal substance:

- a. Ethylmorphine hydrochloride
- b. Ciprofloxacin hydrochloride
- c. Diphenhydramine hydrochloride**
- d. Papaverine hydrochloride
- e. Lidocaine hydrochloride

2181. The chemical name of 2,2-(diphenylmethoxy)-N,N-dimethyl-ethanamine hydrochloride corresponds with the following medicinal substance:

- a. Ethylmorphine hydrochloride
- b. Lidocaine hydrochloride
- c. Papaverine hydrochloride
- d. Diphenhydramine hydrochloride**
- e. Ciprofloxacin hydrochloride

2182. The chemical name of 2,2-(diphenylmethoxy)-N,N-dimethyl-ethanamine hydrochloride corresponds with the following medicinal substance:

- a. Lidocaine hydrochloride
- b. Papaverine hydrochloride
- c. Ciprofloxacin hydrochloride
- d. Ethylmorphine hydrochloride
- e. Diphenhydramine hydrochloride**

2183. The chemical name of 2-benzyl-1H-benzimidazole hydrochloride corresponds with the following medicinal substance:

- a. Indometacin
- b. Dibazol (Bendazolum)**
- c. Omeprazole
- d. Phenazepam
- e. Vicasol (Menadione)

2184. The chemical name of 2-benzyl-1H-benzimidazole hydrochloride corresponds with the following medicinal substance:

- a. Indometacin
- b. Omeprazole
- c. Dibazol (Bendazolum)**
- d. Vicasol (Menadione)
- e. Phenazepam

2185. The chemical name of 2-benzyl-1H-benzimidazole hydrochloride corresponds with the following medicinal substance:

- a. Omeprazole
- b. Vicasol (Menadione)
- c. Phenazepam
- d. Dibazol (Bendazolum)**

e. Indometacin

2186. The chemical name of 5-Nitro-8-hydroxyquinoline corresponds with the following drug:

a. Chingamin (Chloroquine)

b. Nitroxoline

c. Quinocide

d. Dibazol (Bendazol)

e. Ofloxacin

2187. The chemical name of 5-Nitro-8-hydroxyquinoline corresponds with the following drug:

a. Dibazol (Bendazol)

b. Ofloxacin

c. Quinocide

d. Chingamin (Chloroquine)

e. Nitroxoline

2188. The chemical name of 5-Nitro-8-hydroxyquinoline corresponds with the following drug:

a. Quinocide

b. Ofloxacin

c. Dibazol (Bendazol)

d. Chingamin (Chloroquine)

e. Nitroxoline

2189. The chemical structure of Strophanthus cardiac glycosides can be characterized by the presence of the following in position 10 of the steroid ring:

a. Alcoholic hydroxyl

b. Phenolic hydroxyl

c. Aldehyde group

d. Ethoxy group

e. Methoxy group

2190. The chemical structure of Strophanthus cardiac glycosides can be characterized by the presence of the following in position 10 of the steroid ring:

a. Methoxy group

b. Ethoxy group

c. Alcoholic hydroxyl

d. Aldehyde group

e. Phenolic hydroxyl

2191. The chemical structure of Strophanthus cardiac glycosides can be characterized by the presence of the following in position 10 of the steroid ring:

a. Phenolic hydroxyl

b. Ethoxy group

c. Alcoholic hydroxyl

d. Methoxy group

e. Aldehyde group

2192. The chief manager of a pharmacy designs its organizational structure and job descriptions for its employees. These arrangements belong to the following management method:

a. Organizational

b. Economic

c. Legal

d. Psychosocial

e. Simulation

2193. The chief manager of a pharmacy designs its organizational structure and job descriptions for its employees. These arrangements belong to the following management method:

a. Legal

b. Simulation

c. Psychosocial

d. Organizational

e. Economic

2194. The chief manager of a pharmacy designs its organizational structure and job descriptions for

its employees. These arrangements belong to the following management method:

- a. Psychosocial
- b. Economic
- c. Legal
- d. Simulation

e. Organizational

2195. The cholagogue derived from Rosa canina fruit is used in treatment of liver and gallbladder diseases. Name this drug:

a. Cholosas

- b. Allochol
- c. Chophytol
- d. Altan
- e. Phytolyt

2196. The cholagogue derived from Rosa canina fruit is used in treatment of liver and gallbladder diseases. Name this drug:

a. Cholosas

- b. Allochol
- c. Phytolyt
- d. Altan
- e. Chophytol

2197. The cholagogue derived from Rosa canina fruit is used in treatment of liver and gallbladder diseases. Name this drug:

a. Altan

b. Cholosas

- c. Phytolyt
- d. Chophytol
- e. Allochol

2198. The director of a pharmaceutical company is engaged in strategic planning. What is the final stage of this process?

- a. Choosing a strategy
- b. Evaluation and analysis of the external environment

c. Strategy evaluation

- d. Formulation of the mission
- e. Implementation of the strategic plan

2199. The director of a pharmaceutical company is engaged in strategic planning. What is the final stage of this process?

- a. Choosing a strategy
- b. Formulation of the mission
- c. Implementation of the strategic plan

d. Strategy evaluation

- e. Evaluation and analysis of the external environment

2200. The director of a pharmaceutical company is engaged in strategic planning. What is the final stage of this process?

- a. Evaluation and analysis of the external environment
- b. Choosing a strategy

c. Strategy evaluation

- d. Formulation of the mission
- e. Implementation of the strategic plan

2201. The dispensing chemist of a pharmacy has prepared 5 formulations. Which one of them requires total chemical control?

a. Atropine sulfate eyedrops

- b. Streptocide (sulfanilamide) ointment
- c. Baby powder
- d. Riboflavin-containing powders
- e. Kvater's mixture

2202. The dispensing chemist of a pharmacy has prepared 5 formulations. Which one of them requires total chemical control?

a. Kvater's mixture

b. Atropine sulfate eyedrops

c. Streptocide (sulfanilamide) ointment

d. Riboflavin-containing powders

e. Baby powder

2203. The doctor has discontinued captopril for a 58-year-old patient diagnosed with arterial hypertension, because the patient has developed a complication. What side effect is the most likely cause for the discontinuation of this drug?

a. Cough

b. Tinnitus

c. Nausea

d. Abdominal pain

e. Vomiting

2204. The doctor has discontinued captopril for a 58-year-old patient diagnosed with arterial hypertension, because the patient has developed a complication. What side effect is the most likely cause for the discontinuation of this drug?

a. Vomiting

b. Cough

c. Abdominal pain

d. Tinnitus

e. Nausea

2205. The doctor has discontinued captopril for a 58-year-old patient diagnosed with arterial hypertension, because the patient has developed a complication. What side effect is the most likely cause for the discontinuation of this drug?

a. Vomiting

b. Tinnitus

c. Cough

d. Nausea

e. Abdominal pain

2206. The doctor has prescribed the patient an antispasmodic agent bendazol hydrochloride (Dibazol). Based on its chemical structure, bendazol hydrochloride is a derivative of:

a. Benzimidazole

b. Purine

c. Phenothiazine

d. Indole

e. Acridine

2207. The doctor has prescribed the patient an antispasmodic agent bendazol hydrochloride (Dibazol). Based on its chemical structure, bendazol hydrochloride is a derivative of:

a. Phenothiazine

b. Benzimidazole

c. Acridine

d. Indole

e. Purine

2208. The doctor has prescribed the patient an antispasmodic agent bendazol hydrochloride (Dibazol). Based on its chemical structure, bendazol hydrochloride is a derivative of:

a. Phenothiazine

b. Benzimidazole

c. Purine

d. Acridine

e. Indole

2209. The doctor prescribed a patient 100 ml of thermopsis grass infusion. How much of the dry concentrate of thermopsis grass (1:1) should the pharmacist measure out for this patient?

a. 0.1 g

b. 0.2 g

c. 0.5 g

d. 0.25 g

e. 0.3 g

2210. The doctor prescribed a patient 100 ml of thermopsis grass infusion. How much of the dry concentrate of thermopsis grass (1:1) should the pharmacist measure out for this patient?

a. 0.2 g

b. 0.3 g

c. 0.5 g

d. 0.25 g

e. 0.1 g

2211. The doctor prescribed a patient 100 ml of thermopsis grass infusion. How much of the dry concentrate of thermopsis grass (1:1) should the pharmacist measure out for this patient?

a. 0.5 g

b. 0.2 g

c. 0.25 g

d. 0.3 g

e. 0.1 g

2212. The documents of a pharmaceutical company are being received and sent in a centralized manner; the documents are stored, drawn-up, registered, and assembled into cases both in the Office Desk of the company and the company's divisions. Specify this type of records management system:

a. Mixed

b. Referent

c. -

d. Centralized

e. Decentralized

2213. The documents of a pharmaceutical company are being received and sent in a centralized manner; the documents are stored, drawn-up, registered, and assembled into cases both in the Office Desk of the company and the company's divisions. Specify this type of records management system:

a. -

b. Referent

c. Decentralized

d. Centralized

e. Mixed

2214. The documents of a pharmaceutical company are being received and sent in a centralized manner; the documents are stored, drawn-up, registered, and assembled into cases both in the Office Desk of the company and the company's divisions. Specify this type of records management system:

a. Centralized

b. Referent

c. Mixed

d. Decentralized

e. -

2215. The drug sanguiritrin contains a combination of alkaloid bisulfates - sanguinarine and chelerythrine - that have an antimicrobial effect against Gram-positive bacteria and exhibit an antitrichomonal effect. What plant is the source of these alkaloids?

a. *Macleaya cordata*

b. *Vinca minor*

c. *Chelidonium majus*

d. *Glaucium flavum*

e. *Passiflora incarnata*

2216. The drug sanguiritrin contains a combination of alkaloid bisulfates - sanguinarine and chelerythrine - that have an antimicrobial effect against Gram-positive bacteria and exhibit an antitrichomonal effect. What plant is the source of these alkaloids?

a. *Chelidonium majus*

b. *Macleaya cordata*

- c. Vinca minor
- d. Glaucium flavum
- e. Passiflora incarnata

2217. The drug sanguiritrin contains a combination of alkaloid bisulfates - sanguinarine and chelerythrine - that have an antimicrobial effect against Gram-positive bacteria and exhibit an antitrichomonal effect. What plant is the source of these alkaloids?

- a. Passiflora incarnata
- b. Macleaya cordata**
- c. Vinca minor
- d. Glaucium flavum
- e. Chelidonium majus

2218. The duration of a maternity leave for pregnancy and childbirth is calculated in total. What is the total number of calendar days allocated for a maternity leave?

- a. 126 days**
- b. 115 days
- c. 100 days
- d. 70 days
- e. 50 days

2219. The duration of a maternity leave for pregnancy and childbirth is calculated in total. What is the total number of calendar days allocated for a maternity leave?

- a. 100 days
- b. 126 days**
- c. 50 days
- d. 115 days
- e. 70 days

2220. The duration of a maternity leave for pregnancy and childbirth is calculated in total. What is the total number of calendar days allocated for a maternity leave?

- a. 100 days
- b. 70 days
- c. 50 days
- d. 126 days**
- e. 115 days

2221. The duty of a cash desk operator is to perform cash receipt and withdrawal transactions on the grounds of the relevant cash orders. Select from the list below a receipt transaction.

- a. Receipt of funds for advance salary payments**
- b. Issuing a cash sum to be accounted for
- c. Salary payments
- d. Payment for the goods purchased for the business needs
- e. Withdrawing sales proceeds for the transfer to the current account

2222. The duty of a cash desk operator is to perform cash receipt and withdrawal transactions on the grounds of the relevant cash orders. Select from the list below a receipt transaction.

- a. Payment for the goods purchased for the business needs
- b. Receipt of funds for advance salary payments**
- c. Withdrawing sales proceeds for the transfer to the current account
- d. Salary payments
- e. Issuing a cash sum to be accounted for

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- a. Withdrawing sales proceeds for the transfer to the current account
- b. Issuing a cash sum to be accounted for
- c. Payment for the goods purchased for the business needs
- d. Salary payments
- e. Receipt of funds for advance salary payments**

2224. The essential oil of which plant contains zamazali, which is formed during steam distillation from matricin?

- a. Arnica montana
- b. Inula helenium
- c. Valeriana officinalis
- d. Melissa officinalis

e. Chamomila recutita

2225. The essential oil of which plant contains chamazulene, which is formed during steam distillation from matricin?

- a. Inula helenium
- b. Valeriana officinalis
- c. Arnica montana
- d. Melissa officinalis

e. Chamomila recutita

2226. The essential oil of which plant contains chamazulene, which is formed during steam distillation from matricin?

- a. Valeriana officinalis
- b. Arnica montana

c. Chamomila recutita

- d. Melissa officinalis
- e. Inula helenium

2227. The extemporaneous compounding department of a pharmacy prepares eye drops. Which one of the listed substances is a preservative?

a. Acetate buffer

b. Benzalkonium chloride

- c. Sodium chloride
- d. Polyvinyl alcohol
- e. Methyl cellulose

2228. The extemporaneous compounding department of a pharmacy prepares eye drops. Which one of the listed substances is a preservative?

- a. Methyl cellulose
- b. Acetate buffer

c. Benzalkonium chloride

- d. Polyvinyl alcohol
- e. Sodium chloride

2229. The extemporaneous compounding department of a pharmacy prepares eye drops. Which one of the listed substances is a preservative?

- a. Sodium chloride
- b. Polyvinyl alcohol

c. Benzalkonium chloride

- d. Methyl cellulose
- e. Acetate buffer

2230. The extraction process consists of several stages. What is the final stage of the extraction process?

- a. Maceration
- b. Washing the herbal raw material with an extractant
- c. Dissolution
- d. Extraction of primary juice

e. Mass transfer

2231. The extraction process consists of several stages. What is the final stage of the extraction process?

- a. Washing the herbal raw material with an extractant
- b. Dissolution
- c. Maceration

d. Mass transfer

- e. Extraction of primary juice

2232. The extraction process consists of several stages. What is the final stage of the extraction

process?

- a. Washing the herbal raw material with an extractant
- b. Maceration
- c. Extraction of primary juice
- d. Dissolution

e. Mass transfer

2233. The following herbal raw material is a source of tannin in pharmaceutical manufacture:

a. Fructus Viburni

b. Folium Cotini coggygiae

c. Rhizomata Bistortae

d. Rhizomata Bergeniae

e. Rhizomata et radix Sanguisorbae

2234. The following herbal raw material is a source of tannin in pharmaceutical manufacture:

a. Rhizomata Bistortae

b. Folium Cotini coggygiae

c. Rhizomata Bergeniae

d. Fructus Viburni

e. Rhizomata et radix Sanguisorbae

2235. The following herbal raw material is a source of tannin in pharmaceutical manufacture:

a. Rhizomata et radix Sanguisorbae

b. Fructus Viburni

c. Rhizomata Bistortae

d. Rhizomata Bergeniae

e. Folium Cotini coggygiae

2236. The following substance is used as an extractant in production of liquid extracts:

a. Ethanol

b. Chloroform

c. Glycerine

d. Dichloroethane

e. Acetone

2237. The following substance is used as an extractant in production of liquid extracts:

a. Acetone

b. Ethanol

c. Glycerine

d. Dichloroethane

e. Chloroform

2238. The following substance is used as an extractant in production of liquid extracts:

a. Chloroform

b. Acetone

c. Dichloroethane

d. Ethanol

e. Glycerine

2239. The head manager of Pharmacy №5 that belongs to the <<Hippocrates>> company was transferred to be the head manager of Pharmacy №1 within the same network. What type of human resources movement is it?

a. Horizontal rotation

b. Vertical rotation

c. Diagonal rotation

d. Employee turnover

e. Mixed rotation

2240. The head manager of Pharmacy №5 that belongs to the <<Hippocrates>> company was transferred to be the head manager of Pharmacy №1 within the same network. What type of human resources movement is it?

a. Employee turnover

b. Horizontal rotation

- c. Vertical rotation
- d. Mixed rotation
- e. Diagonal rotation

2241. The head manager of Pharmacy №5 that belongs to the <<Hippocrates>> company was transferred to be the head manager of Pharmacy №1 within the same network. What type of human resources movement is it?

- a. Employee turnover
- b. Mixed rotation

c. Horizontal rotation

- d. Diagonal rotation
- e. Vertical rotation

2242. The head manager of a pharmacy calls the manager of a pharmaceutical wholesaler to clarify the terms of supply. What type of communication is it?

a. External

- b. Vertical
- c. Horizontal
- d. Internal
- e. Interlevel

2243. The head manager of a pharmacy calls the manager of a pharmaceutical wholesaler to clarify the terms of supply. What type of communication is it?

- a. Horizontal
- b. Interlevel

c. External

- d. Vertical
- e. Internal

2244. The head manager of a pharmacy calls the manager of a pharmaceutical wholesaler to clarify the terms of supply. What type of communication is it?

- a. Interlevel

b. External

- c. Internal
- d. Vertical
- e. Horizontal

2245. The head manager of a pharmacy has decided to apply various management methods as a means of influencing separate employees and the staff as a whole. What management methods can be classified as psychosocial?

- a. -
- b. The process of distribution of duties between the technical level managers
- c. The process of salary calculation for the sales department employees
- d. Plan for improvement of the working conditions at the pharmaceutical facility**
- e. Material stimuli that include salary rates, extra pay, increments, bonuses, etc.

2246. The head manager of a pharmacy has decided to apply various management methods as a means of influencing separate employees and the staff as a whole. What management methods can be classified as psychosocial?

- a. Material stimuli that include salary rates, extra pay, increments, bonuses, etc.
- b. -
- c. The process of distribution of duties between the technical level managers
- d. Plan for improvement of the working conditions at the pharmaceutical facility**
- e. The process of salary calculation for the sales department employees

2247. The head manager of a pharmacy has decided to apply various management methods as a means of influencing separate employees and the staff as a whole. What management methods can be classified as psychosocial?

- a. The process of salary calculation for the sales department employees
- b. Material stimuli that include salary rates, extra pay, increments, bonuses, etc.
- c. The process of distribution of duties between the technical level managers
- d. -

e. Plan for improvement of the working conditions at the pharmaceutical facility

2248. The head manager of a pharmacy has determined the salary of a dispensing chemist for the work performed according to the labor norms. What type of payment is it?

a. Incentive pay

b. Base salary

c. Reimbursement

d. Additional salary

e. Pension benefit

2249. The head manager of a pharmacy has determined the salary of a dispensing chemist for the work performed according to the labor norms. What type of payment is it?

a. Incentive pay

b. Pension benefit

c. Reimbursement

d. Additional salary

e. Base salary

2250. The head manager of a pharmacy has determined the salary of a dispensing chemist for the work performed according to the labor norms. What type of payment is it?

a. Reimbursement

b. Base salary

c. Pension benefit

d. Incentive pay

e. Additional salary

2251. The head manager of a pharmacy has transferred to the deputy head manager the authority to select the range of products for sale and make decisions about the nomenclature and amount of medicines and medical products to be purchased from suppliers and the terms of such purchase contracts. What is this action called in the management theory?

a. Motivation

b. Planning

c. Delegation

d. Control

e. Organization

2252. The head manager of a pharmacy has transferred to the deputy head manager the authority to select the range of products for sale and make decisions about the nomenclature and amount of medicines and medical products to be purchased from suppliers and the terms of such purchase contracts. What is this action called in the management theory?

a. Planning

b. Delegation

c. Organization

d. Motivation

e. Control

2253. The head manager of a pharmacy has transferred to the deputy head manager the authority to select the range of products for sale and make decisions about the nomenclature and amount of medicines and medical products to be purchased from suppliers and the terms of such purchase contracts. What is this action called in the management theory?

a. Planning

b. Control

c. Motivation

d. Delegation

e. Organization

2254. The head manager of a pharmacy uses influence methods that concern property and financial interests of the employees. What management methods are used by the head manager?

a. Economic

b. Administrative

c. Technological

d. Social and political

e. Social and psychological

2255. The head manager of a pharmacy uses influence methods that concern property and financial interests of the employees. What management methods are used by the head manager?

a. Administrative

b. Economic

c. Social and political

d. Technological

e. Social and psychological

2256. The head manager of a pharmacy uses influence methods that concern property and financial interests of the employees. What management methods are used by the head manager?

a. Administrative

b. Technological

c. Economic

d. Social and psychological

e. Social and political

2257. The head manager of a pharmacy, together with the heads of its departments, decided to expand the selection of products on sale at this pharmacy by expanding the range of products for diabetic nutrition. What type of managerial decision is it?

a. Collegial

b. Personal

c. -

d. Individual

e. Received from a higher-level organization

2258. The head manager of a pharmacy, together with the heads of its departments, decided to expand the selection of products on sale at this pharmacy by expanding the range of products for diabetic nutrition. What type of managerial decision is it?

a. Individual

b. Received from a higher-level organization

c. Personal

d. Collegial

e. -

2259. The head manager of a pharmacy, together with the heads of its departments, decided to expand the selection of products on sale at this pharmacy by expanding the range of products for diabetic nutrition. What type of managerial decision is it?

a. Received from a higher-level organization

b. Personal

c. -

d. Collegial

e. Individual

2260. The head manager of the "Ecopharm" pharmacy has entrusted the deputy head manager with some of his duties. The process when an executive partially transfers the authority to perform certain tasks to his or her subordinates is called:

a. Delegation of authority

b. Dissolution of authority

c. Reduction of authority

d. -

e. Withdrawal of authority

2261. The head manager of the "Ecopharm" pharmacy has entrusted the deputy head manager with some of his duties. The process when an executive partially transfers the authority to perform certain tasks to his or her subordinates is called:

a. -

b. Delegation of authority

c. Reduction of authority

d. Withdrawal of authority

e. Dissolution of authority

2262. The head manager of the "Ecopharm" pharmacy has entrusted the deputy head manager with some of his duties. The process when an executive partially transfers the authority to perform certain tasks to his or her subordinates is called:

- a. -
- b. Dissolution of authority
- c. Reduction of authority
- d. Withdrawal of authority

e. Delegation of authority

2263. The head managers of the pharmacy's over-the-counter department and ready-to-use drugs department exchange information on the demand for medicines. What type of communication is it?

a. Horizontal

- b. Vertical descending
- c. External
- d. Interlevel
- e. Vertical ascending

2264. The head managers of the pharmacy's over-the-counter department and ready-to-use drugs department exchange information on the demand for medicines. What type of communication is it?

- a. External
- b. Interlevel

c. Horizontal

- d. Vertical descending
- e. Vertical ascending

2265. The head managers of the pharmacy's over-the-counter department and ready-to-use drugs department exchange information on the demand for medicines. What type of communication is it?

- a. Vertical descending
- b. Interlevel

c. Horizontal

- d. Vertical ascending
- e. External

2266. The head of a pharmacy uses a flexible system of pharmacy management methods. Select from the list below a measure that corresponds with organizational influence methods:

a. Clear distribution of tasks between the employees

- b. Promotion
- c. -
- d. Meeting the cultural and social needs of employees
- e. Material reward (bonuses, increments, pay rise)

2267. The head of a pharmacy uses a flexible system of pharmacy management methods. Select from the list below a measure that corresponds with organizational influence methods:

- a. Material reward (bonuses, increments, pay rise)
- b. Meeting the cultural and social needs of employees
- c. Promotion
- d. -

e. Clear distribution of tasks between the employees

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- a. Meeting the cultural and social needs of employees
- b. Promotion

c. Clear distribution of tasks between the employees

- d. -
- e. Material reward (bonuses, increments, pay rise)

2269. The herbal raw material of a foxglove is a source, from which cardiotonic agents are obtained. What organs of the *Digitalis purpurea* are harvested as a herbal raw material?

a. Leaves

- b. Fruits
- c. Seeds

- d. Roots
- e. Rhizomes

2270. The herbal raw material of a foxglove is a source, from which cardiotonic agents are obtained. What organs of the *Digitalis purpurea* are harvested as a herbal raw material?

- a. Rhizomes
- b. Fruits
- c. Roots
- d. Seeds

e. Leaves

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- a. Rhizomes
- b. Seeds

c. Leaves

- d. Roots
- e. Fruits

2272. The introduction of fluorine atoms into a glucocorticosteroid molecule results in a significant increase of the anti-inflammatory effect. What drug is a fluorine-derivative glucocorticoid?

a. Betamethasone dipropionate

- b. Cortisone acetate
- c. Prednisone
- d. Prednisolone
- e. Hydrocortisone acetate

2273. The introduction of fluorine atoms into a glucocorticosteroid molecule results in a significant increase of the anti-inflammatory effect. What drug is a fluorine-derivative glucocorticoid?

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- b. Hydrocortisone acetate
- c. Prednisolone
- d. Prednisone

e. Betamethasone dipropionate

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- a. Prednisolone
- b. Cortisone acetate

c. Betamethasone dipropionate

- d. Hydrocortisone acetate
- e. Prednisone

2275. The main active substances of *Rhizomata et radices Eleutherococci* are eleutherosides of various chemical nature. What class of bioactive substances includes syringoresinol and its derivatives that determine the tonic and adaptogenic properties of this herbal raw material?

a. Lignans

- b. Xanthenes
- c. Flavonoids
- d. Iridoids
- e. Coumarins

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derivatives that determine the tonic and adaptogenic properties of this herbal raw material?

- a. Xanthones
- b. Flavonoids
- c. Coumarins
- d. Lignans**

e. Iridoids

2278. The main method of quantitative determination of corticosteroids is:

a. Spectrophotometry

- b. Acidimetry
- c. Cerimetry
- d. Argentometry
- e. Potentiometry

2279. The main method of quantitative determination of corticosteroids is:

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- b. Acidimetry
- c. Cerimetry
- d. Potentiometry
- e. Argentometry

2280. The main method of quantitative determination of corticosteroids is:

- a. Potentiometry
- b. Argentometry
- c. Acidimetry
- d. Cerimetry

e. Spectrophotometry

2281. The management of a pharmaceutical company performs an internal audit to check the compliance with proper work practices. What management function is used by the company's management in this case?

a. Control

- b. Motivation
- c. Planning
- d. Regulation
- e. Organization

2282. The management of a pharmaceutical company performs an internal audit to check the compliance with proper work practices. What management function is used by the company's management in this case?

- a. Motivation
- b. Regulation

c. Control

- d. Planning
- e. Organization

2283. The management of a pharmaceutical company performs an internal audit to check the compliance with proper work practices. What management function is used by the company's management in this case?

a. Organization

b. Control

- c. Planning
- d. Regulation
- e. Motivation

2284. The management of a pharmaceutical company takes into account the presence of informal groups within the organization. What is characteristic of informal groups?

a. Resist changes in the organization

- b. Have a clear formal structure
- c. Are formed for the implementation of the manufacturing process
- d. -
- e. Are formed upon the request of the head of the organization

2285. The management of a pharmaceutical company takes into account the presence of informal groups within the organization. What is characteristic of informal groups?

a. -

b. Resist changes in the organization

- c. Are formed upon the request of the head of the organization
- d. Are formed for the implementation of the manufacturing process
- e. Have a clear formal structure

2286. The management of a pharmaceutical company takes into account the presence of informal groups within the organization. What is characteristic of informal groups?

a. Have a clear formal structure

b. Resist changes in the organization

- c. Are formed for the implementation of the manufacturing process
- d. Are formed upon the request of the head of the organization
- e. -

2287. The management of a pharmaceutical company uses F. Herzberg's two-factor theory of motivation. What is this theory based on?

a. Hygienic and motivational factors

- b. The need for power, success, and affiliation
- c. The need for existence, connection, growth
- d. The need for protection
- e. The need for safety

2288. The management of a pharmaceutical company uses F. Herzberg's two-factor theory of motivation. What is this theory based on?

- a. The need for power, success, and affiliation
- b. The need for safety

c. Hygienic and motivational factors

- d. The need for protection
- e. The need for existence, connection, growth

2289. The management of a pharmaceutical company uses F. Herzberg's two-factor theory of motivation. What is this theory based on?

- a. The need for protection
- b. The need for safety

c. Hygienic and motivational factors

- d. The need for existence, connection, growth
- e. The need for power, success, and affiliation

2290. The management plans to open a new pharmacy in one of the local villages. Such activity can be identified as:

a. Horizontal diversification

b. Growth strategy

- c. Conglomerate diversification
- d. Horizontal integration
- e. Vertical integration

2291. The management plans to open a new pharmacy in one of the local villages. Such activity can be identified as:

- a. Horizontal diversification
- b. Conglomerate diversification
- c. Horizontal integration

d. Growth strategy

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2292. The management plans to open a new pharmacy in one of the local villages. Such activity can be identified as:

- a. Horizontal integration
- b. Vertical integration
- c. Horizontal diversification
- d. Conglomerate diversification

e. Growth strategy

2293. The manager of a pharmacy chain has drawn up a document, in which he asks a pharmaceutical factory to provide him with the information about the assortment of ointments manufactured by this factory. What document was drawn up by the manager?

a. Request

- b. Offer
- c. Complaint
- d. Contract
- e. Statement

2294. The manager of a pharmacy chain has drawn up a document, in which he asks a pharmaceutical factory to provide him with the information about the assortment of ointments manufactured by this factory. What document was drawn up by the manager?

- a. Complaint
- b. Contract
- c. Offer
- d. Statement

e. Request

2295. The manager of a pharmacy chain has drawn up a document, in which he asks a pharmaceutical factory to provide him with the information about the assortment of ointments manufactured by this factory. What document was drawn up by the manager?

- a. Complaint
- b. Contract
- c. Statement
- d. Offer

e. Request

2296. The market can be characterized by the following conditions: there are many sellers and buyers, who have no influence over current prices; similar and interchangeable competing goods are available; there are no price limits. What type of market is it?

- a. Economic planning

b. Pure competition

- c. Oligopoly
- d. Monopolistic competition
- e. Pure monopoly

2297. The market can be characterized by the following conditions: there are many sellers and buyers, who have no influence over current prices; similar and interchangeable competing goods are available; there are no price limits. What type of market is it?

- a. Oligopoly
- b. Economic planning
- c. Pure monopoly
- d. Monopolistic competition

e. Pure competition

2298. The market can be characterized by the following conditions: there are many sellers and buyers, who have no influence over current prices; similar and interchangeable competing goods are available; there are no price limits. What type of market is it?

- a. Oligopoly
- b. Monopolistic competition

c. Pure competition

- d. Pure monopoly
- e. Economic planning

2299. The marketing department of a pharmaceutical company conducts a field research of the pharmaceutical market. What method of information collection belongs to the field research?

- a. Analysis of the periodical publications
- b. Analysis of the statistical reference books
- c. Analysis of the company's statistical reports
- d. Customer survey

e. Analysis of the scientific publications

2300. The marketing department of a pharmaceutical company conducts a field research of the pharmaceutical market. What method of information collection belongs to the field research?

a. Analysis of the scientific publications

b. Analysis of the company's statistical reports

c. Customer survey

d. Analysis of the periodical publications

e. Analysis of the statistical reference books

2301. The marketing department of a pharmaceutical company conducts a field research of the pharmaceutical market. What method of information collection belongs to the field research?

a. Analysis of the statistical reference books

b. Analysis of the company's statistical reports

c. Analysis of the periodical publications

d. Analysis of the scientific publications

e. Customer survey

2302. The marketing department of a pharmaceutical factory determined that the demand for the echinacea syrup for kids greatly fluctuates in response to the smallest changes in its price. What type of demand is it?

a. Inelastic demand

b. Elastic demand

c. Unitary demand

d. Perfectly inelastic demand

e. Universal demand

2303. The marketing department of a pharmaceutical factory determined that the demand for the echinacea syrup for kids greatly fluctuates in response to the smallest changes in its price. What type of demand is it?

a. Inelastic demand

b. Unitary demand

c. Perfectly inelastic demand

d. Universal demand

e. Elastic demand

2304. The marketing department of a pharmaceutical factory determined that the demand for the echinacea syrup for kids greatly fluctuates in response to the smallest changes in its price. What type of demand is it?

a. Universal demand

b. Unitary demand

c. Inelastic demand

d. Perfectly inelastic demand

e. Elastic demand

2305. The marketing department of the "Aphrodite" company that specializes in production of anti-aging cosmetics has divided the customers into groups, based on their age. What principle of segmentation is the basis for this customer classification?

a. Demographic

b. Geographical

c. Behavioral

d. Social and economic

e. Psychographic

2306. The marketing department of the "Aphrodite" company that specializes in production of anti-aging cosmetics has divided the customers into groups, based on their age. What principle of segmentation is the basis for this customer classification?

a. Geographical

b. Psychographic

c. Social and economic

d. Demographic

e. Behavioral

2307. The marketing department of the "Aphrodite" company that specializes in production of anti-aging cosmetics has divided the customers into groups, based on their age. What principle of segmentation is the basis for this customer classification?

- a. Psychographic
- b. Behavioral
- c. Geographical
- d. Demographic**
- e. Social and economic

2308. The marketing team of a pharmaceutical company has calculated the coefficient of elasticity of the demand for medical products, which is equal to 1. What type of elasticity of the demand is it?

- a. Elastic
- b. Unitary**
- c. Perfectly inelastic
- d. Inelastic
- e. Perfectly elastic

2309. The marketing team of a pharmaceutical company has calculated the coefficient of elasticity of the demand for medical products, which is equal to 1. What type of elasticity of the demand is it?

- a. Elastic
- b. Perfectly inelastic
- c. Inelastic
- d. Perfectly elastic
- e. Unitary**

2310. The marketing team of a pharmaceutical company has calculated the coefficient of elasticity of the demand for medical products, which is equal to 1. What type of elasticity of the demand is it?

- a. Perfectly inelastic
- b. Perfectly elastic
- c. Elastic
- d. Unitary**
- e. Inelastic

2311. The marketing team of a pharmaceutical company has performed a comparative analysis of internal environment and external conditions. They have analyzed strengths and weaknesses, opportunities and threats. The marketing team has performed:

- a. -
- b. ABC analysis
- c. SWOT analysis**
- d. VEN analysis
- e. PEST analysis

2312. The marketing team of a pharmaceutical company has performed a comparative analysis of internal environment and external conditions. They have analyzed strengths and weaknesses, opportunities and threats. The marketing team has performed:

- a. ABC analysis
- b. -
- c. VEN analysis
- d. SWOT analysis**
- e. PEST analysis

2313. The marketing team of a pharmaceutical company has performed a comparative analysis of internal environment and external conditions. They have analyzed strengths and weaknesses, opportunities and threats. The marketing team has performed:

- a. VEN analysis
- b. PEST analysis
- c. ABC analysis
- d. -
- e. SWOT analysis**

2314. The material accountability of an employee is determined by the written agreement. When does the agreement of employee's material accountability need to be concluded anew?

- a. Change of the dispensing chemist
- b. Replacement of over 30% of the initial personnel

c. Change of the head manager or replacement of over 50% of the initial personnel

- d. Change of the janitor
- e. Change of the chief accountant

2315. The material accountability of an employee is determined by the written agreement. When does the agreement of employee's material accountability need to be concluded anew?

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b. Change of the dispensing chemist

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- d. Change of the janitor
- e. Change of the chief accountant

2317. The medicinal plants of the Fabaceae family contain various groups of bioactive substances. What representative of this family contains flavonoids and is used as an industrial source of rutin?

- a. Glycyrrhiza glabra
- b. Bidens tripartita
- c. Thermopsis alterniflora

d. Styphnolobium japonicum

e. Ononis arvensis

2318. The medicinal plants of the Fabaceae family contain various groups of bioactive substances. What representative of this family contains flavonoids and is used as an industrial source of rutin?

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- b. Thermopsis alterniflora
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- a. Ononis arvensis
- b. Bidens tripartita
- c. Glycyrrhiza glabra

d. Styphnolobium japonicum

e. Thermopsis alterniflora

2320. The medicines that contain anthracene derivatives are used as laxatives. What medicinal plant contains this group of bioactive substances?

a. Frangula alnus

- b. Calendula officinalis
- c. Bidens tripartita
- d. Eucalyptus globulus
- e. Salvia officinalis

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2322. The medicines that contain anthracene derivatives are used as laxatives. What medicinal plant

contains this group of bioactive substances?

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- b. Bidens tripartita
- c. Frangula alnus**
- d. Salvia officinalis
- e. Eucalyptus globulus

2323. The method of preparing suspensions depends on the properties of the component substances. What substances have hydrophobic properties?

- a. Camphor, menthol**
- b. Zinc oxide, talcum
- c. Boric acid, calcium carbonate
- d. Bolus alba (kaolin), bentonite
- e. Sodium bicarbonate, sodium sulfate

2324. The method of preparing suspensions depends on the properties of the component substances. What substances have hydrophobic properties?

- a. Sodium bicarbonate, sodium sulfate
- b. Bolus alba (kaolin), bentonite
- c. Boric acid, calcium carbonate

d. Camphor, menthol

- e. Zinc oxide, talcum

2325. The method of preparing suspensions depends on the properties of the component substances. What substances have hydrophobic properties?

- a. Zinc oxide, talcum
- b. Bolus alba (kaolin), bentonite

c. Camphor, menthol

- d. Sodium bicarbonate, sodium sulfate
- e. Boric acid, calcium carbonate

2326. The method of stirring-up (dispersion) is used to make suspensions with a certain substance. Name this substance:

- a. Camphor
- b. Streptocide (Sulfanilamide)
- c. Sulfur
- d. Ethazole

e. Basic bismuth nitrate

2327. The method of stirring-up (dispersion) is used to make suspensions with a certain substance. Name this substance:

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- b. Ethazole
- c. Camphor

d. Basic bismuth nitrate

- e. Sulfur

2328. The method of stirring-up (dispersion) is used to make suspensions with a certain substance. Name this substance:

- a. Sulfur
- b. Streptocide (Sulfanilamide)
- c. Camphor

d. Basic bismuth nitrate

- e. Ethazole

2329. The mother of a child came to a pharmacy to buy an anti-inflammatory medicine that can relieve the muscle pain in her 10-year-old son. What medicine would you recommend her?

a. Ibuprofen

- b. Nimesulide
- c. Acetylsalicylic acid
- d. Naproxen
- e. Diclofenac

2330. The mother of a child came to a pharmacy to buy an anti-inflammatory medicine that can relieve the muscle pain in her 10-year-old son. What medicine would you recommend her?

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2331. The mother of a child came to a pharmacy to buy an anti-inflammatory medicine that can relieve the muscle pain in her 10-year-old son. What medicine would you recommend her?

a. Naproxen

b. Diclofenac

c. Ibuprofen

d. Acetylsalicylic acid

e. Nimesulide

2332. The owner of a pharmacy network unilaterally decides to register its trade mark, based on his feeling that he makes the right choice. What type of managerial decision is it?

a. Intuitive

b. Collective

c. Collegial

d. Adaptive

e. Rational

2333. The owner of a pharmacy network unilaterally decides to register its trade mark, based on his feeling that he makes the right choice. What type of managerial decision is it?

a. Adaptive

b. Collegial

c. Intuitive

d. Rational

e. Collective

2334. The owner of a pharmacy network unilaterally decides to register its trade mark, based on his feeling that he makes the right choice. What type of managerial decision is it?

a. Rational

b. Intuitive

c. Adaptive

d. Collective

e. Collegial

2335. The personal qualities of the head of a pharmaceutical company are attractive to the subordinates who want to emulate their boss in everything. What form of power of the manager is observed in this situation?

a. -

b. Power based on fear

c. Coercive power

d. Legitimate power

e. Referent power

2336. The personal qualities of the head of a pharmaceutical company are attractive to the subordinates who want to emulate their boss in everything. What form of power of the manager is observed in this situation?

a. Coercive power

b. Referent power

c. -

d. Legitimate power

e. Power based on fear

2337. The personal qualities of the head of a pharmaceutical company are attractive to the subordinates who want to emulate their boss in everything. What form of power of the manager is observed in this situation?

a. Power based on fear

b. Legitimate power

c. Coercive power

d. Referent power

e. -

2338. The pharmaceutical company directs all the efforts to the restoration of the range of endangered medicinal plants listed in the Red Book of Ukraine. What type of responsibility does the firm take on?

a. Social

b. Personal

c. Administrative

d. Legal

e. Criminal

2339. The pharmaceutical company directs all the efforts to the restoration of the range of endangered medicinal plants listed in the Red Book of Ukraine. What type of responsibility does the firm take on?

a. Criminal

b. Social

c. Administrative

d. Personal

e. Legal

2340. The pharmaceutical company directs all the efforts to the restoration of the range of endangered medicinal plants listed in the Red Book of Ukraine. What type of responsibility does the firm take on?

a. Personal

b. Social

c. Administrative

d. Legal

e. Criminal

2341. The pharmacological activity of medicines largely depends on their chemical structure. Which of the following drugs is a pyrazole derivative?

a. Metronidazole

b. Piracetam

c. Bendazol

d. Thiamazole

e. Metamizole sodium

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b. Metamizole sodium

c. Bendazol

d. Metronidazole

e. Thiamazole

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a. Thiamazole

b. Metamizole sodium

c. Metronidazole

d. Bendazol

e. Piracetam

2344. The pharmacy received the goods from the supplier. In the process of acceptance by the authorized person, a discrepancy in the number of medicines was discovered. What document does the authorized person need to issue?

a. Logbook of receipt of goods by group

b. Act on established discrepancy in quantity and quality

c. Contract of sale

- d. Register of medicinal products received by the subject of economic activity
- e. Product report

2345. The pharmacy received the goods from the supplier. In the process of acceptance by the authorized person, a discrepancy in the number of medicines was discovered. What document does the authorized person need to issue?

- a. Logbook of receipt of goods by group
- b. Product report
- c. Act on established discrepancy in quantity and quality
- d. Register of medicinal products received by the subject of economic activity
- e. Contract of sale

2346. The pharmacy received the goods from the supplier. In the process of acceptance by the authorized person, a discrepancy in the number of medicines was discovered. What document does the authorized person need to issue?

- a. Product report
- b. Register of medicinal products received by the subject of economic activity
- c. Act on established discrepancy in quantity and quality
- d. Logbook of receipt of goods by group
- e. Contract of sale

2347. The phytochemical department of a pharmaceutical manufacture produces maximally purified extracts. In the process, specific methods are used for the extract purification. Which description corresponds with the dialysis method?

- a. The process of electrolyte action
- b. The process of extraction from one liquid using another liquid
- c. The characteristic of biopolymer molecules that does not allow them to pass through semi-permeable membranes
- d. The process of heating the extract
- e. The process of gas absorption

2348. The phytochemical department of a pharmaceutical manufacture produces maximally purified extracts. In the process, specific methods are used for the extract purification. Which description corresponds with the dialysis method?

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- b. The characteristic of biopolymer molecules that does not allow them to pass through semi-permeable membranes
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- b. The process of extraction from one liquid using another liquid
- c. The process of gas absorption
- d. The characteristic of biopolymer molecules that does not allow them to pass through semi-permeable membranes
- e. The process of electrolyte action

2350. The phytochemical workshop of a factory produces extraction preparations. For what purpose are concentrated extracts used?

- a. For quick preparation of infusions and decoctions in pharmacy practice
- b. To be used as ready-made medicines
- c. For preparation of dry extracts
- d. For preparation of tinctures
- e. For preparation of thick extracts

2351. The phytochemical workshop of a factory produces extraction preparations. For what purpose are concentrated extracts used?

- a. For preparation of thick extracts

- b. To be used as ready-made medicines
- c. For preparation of tinctures

d. For quick preparation of infusions and decoctions in pharmacy practice

- e. For preparation of dry extracts

2352. The phytochemical workshop of a factory produces extraction preparations. For what purpose are concentrated extracts used?

- a. To be used as ready-made medicines
- b. For preparation of dry extracts
- c. For preparation of thick extracts

d. For quick preparation of infusions and decoctions in pharmacy practice

- e. For preparation of tinctures

2353. The phytochemical workshop of a factory produces liquid extracts. What extractants are used in this manufacturing process?

a. Aqueous-alcoholic solutions

- b. Ammonia solution
- c. Dichloroethane
- d. Chloroform
- e. Water

2354. The phytochemical workshop of a factory produces liquid extracts. What extractants are used in this manufacturing process?

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- b. Dichloroethane
- c. Water

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- e. Chloroform

2355. The phytochemical workshop of a factory produces liquid extracts. What extractants are used in this manufacturing process?

- a. Dichloroethane
- b. Chloroform
- c. Ammonia solution

d. Aqueous-alcoholic solutions

- e. Water

2356. The preparations of Silybum marianum, "Silibor" and "Carsil", have hepatoprotective action. What parts of Silybum marianum are the herbal raw material from which these medicines are being made?

a. Seeds

- b. Leaves
- c. Roots
- d. Grass
- e. Flowers

2357. The preparations of Silybum marianum, "Silibor" and "Carsil", have hepatoprotective action. What parts of Silybum marianum are the herbal raw material from which these medicines are being made?

- a. Leaves
- b. Roots

c. Seeds

- d. Flowers
- e. Grass

2358. The preparations of Silybum marianum, "Silibor" and "Carsil", have hepatoprotective action. What parts of Silybum marianum are the herbal raw material from which these medicines are being made?

- a. Roots

b. Seeds

- c. Grass
- d. Flowers

e. Leaves

2359. The presence of a primary aromatic amino group in sulfanilamide structure can be confirmed with a reaction that produces:

- a. Fluorescein
- b. Diazonium salts
- c. Murexide
- d. Iodoform

e. Azo dye

2360. The presence of a primary aromatic amino group in sulfanilamide structure can be confirmed with a reaction that produces:

- a. Fluorescein
- b. Iodoform
- c. Diazonium salts

d. Azo dye

e. Murexide

2361. The presence of a primary aromatic amino group in sulfanilamide structure can be confirmed with a reaction that produces:

- a. Murexide
- b. Diazonium salts
- c. Fluorescein
- d. Iodoform

e. Azo dye

2362. The price of a medicine depends on many factors. Which of the listed below is an internal factor of price formation for a pharmaceutical manufacturer?

- a. Customer preferences
- b. Demand for the product

c. Manufacturing costs

- d. Middleman markup
- e. Pricing policy of the competitors

2363. The price of a medicine depends on many factors. Which of the listed below is an internal factor of price formation for a pharmaceutical manufacturer?

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- b. Pricing policy of the competitors

c. Manufacturing costs

- d. Demand for the product
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2364. The price of a medicine depends on many factors. Which of the listed below is an internal factor of price formation for a pharmaceutical manufacturer?

- a. Middleman markup
- b. Demand for the product
- c. Customer preferences
- d. Pricing policy of the competitors

e. Manufacturing costs

2365. The procedure for circulation of narcotic drugs, psychotropic substances, and precursors in pharmacies is regulated by law. Which one of the medicines listed below is a narcotic drug?

- a. Atropine sulfate
- b. Ethyl alcohol
- c. Prednisolone
- d. Zopiclone

e. Tramadol

2366. The procedure for circulation of narcotic drugs, psychotropic substances, and precursors in pharmacies is regulated by law. Which one of the medicines listed below is a narcotic drug?

- a. Ethyl alcohol
- b. Atropine sulfate
- c. Prednisolone

d. Tramadol

e. Zopiclone

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b. Zopiclone

c. Ethyl alcohol

d. Atropine sulfate

e. Tramadol

2368. The process of rectification is used to make ethyl alcohol. This process is based on the following principle:

a. Separation of the mixture consisting of mutually-associating liquids with different boiling temperature into separate fractions

b. Technology of obtaining liquid extracts

c. Deep vacuum distillation

d. Rinsing of exhausted raw material with 3-5 times the amount of ethanol

e. Distillation with inert gases

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b. Separation of the mixture consisting of mutually-associating liquids with different boiling temperature into separate fractions

c. Deep vacuum distillation

d. Rinsing of exhausted raw material with 3-5 times the amount of ethanol

e. Distillation with inert gases

2371. The quality control analytical laboratory analyzes a medicine with sodium benzoate. What reagent will form a pink-yellow precipitate with the medicine being analyzed?

a. Iron(III) chloride solution

b. Potassium permanganate solution

c. Magnesium sulfate solution

d. Sodium bicarbonate solution

e. Sodium nitrate solution

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2374. The quantification of acetylsalicylic acid using the method of direct alkalimetry is recommended

to be carried out at the temperature no higher than 20°C to prevent a certain process from occurring. What process is it?

- a. Oxidation of the medicinal substance
- b. Decarboxylation of the medicinal substance
- c. Precipitation of the formed salt
- d. Reduction of the medicinal substance

e. Hydrolysis of the ester group

2375. The quantification of acetylsalicylic acid using the method of direct alkalimetry is recommended to be carried out at the temperature no higher than 20°C to prevent a certain process from occurring. What process is it?

- a. Precipitation of the formed salt
- b. Oxidation of the medicinal substance

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- e. Reduction of the medicinal substance

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- b. Oxidation of the medicinal substance
- c. Decarboxylation of the medicinal substance

d. Hydrolysis of the ester group

- e. Precipitation of the formed salt

2377. The reaction of glucose identification produces red precipitate with the following reagent:

a. Copper-tartrate

- b. Ammoniacal silver nitrate solution
- c. Alkaline potassium tetraiodomercurate solution
- d. Thiocyanogen bromide
- e. Sodium nitroprusside solution

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- d. Thiocyanogen bromide

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2380. The solubility of high-molecular compounds depends on their nature. Specify a high-molecular compound that can swell up indefinitely:

- a. Methylcellulose

b. Pepsin

- c. Starch
- d. Gelatin
- e. Pectin

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- b. Starch
- c. Pepsin**
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2383. The substances and their salts that are used in production and purification of narcotic and psychotropic substances should be accounted in the pharmacy as:

a. Precursors

- b. Narcotic substances
- c. Potent substances
- d. Toxic substances
- e. Psychotropic substances

2384. The substances and their salts that are used in production and purification of narcotic and psychotropic substances should be accounted in the pharmacy as:

a. Precursors

- b. Toxic substances
- c. Psychotropic substances
- d. Potent substances
- e. Narcotic substances

2385. The substances and their salts that are used in production and purification of narcotic and psychotropic substances should be accounted in the pharmacy as:

- a. Psychotropic substances
- b. Potent substances
- c. Narcotic substances

d. Precursors

- e. Toxic substances

2386. The tablet workshop at a pharmaceutical factory manufactures tablets adding adjuvants into the tablet mass. What substances belong to taste correctors?

- a. Purified water, starch glue, sugar syrup, gelatin, carboxymethylcellulose solution
- b. Starch, glucose, kaolinite, magnesium oxide, sodium bicarbonate
- c. Methylcellulose, polyvinylpyrrolidone, acetylphthalylcellulose
- d. Stearic acid, calcium and magnesium stearate, starch, talcum

e. Sugar, glucose, essential oils, menthol, fruit juice concentrates, indigo carmine, iron oxide, mannitol

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d. Sugar, glucose, essential oils, menthol, fruit juice concentrates, indigo carmine, iron oxide, mannitol

- e. Starch, glucose, kaolinite, magnesium oxide, sodium bicarbonate

2389. The tableting department of a pharmaceutical company begins to produce "fizzy" vitamin tablets. Name the groups of gas-producing leavening agents:

- a. Citric acid and aerosil (fumed silica)

- b. Tartaric acid and magnesium stearate
- c. Ascorbic acid and aerosil (fumed silica)
- d. Citric acid and magnesium stearate

e. Tartaric acid and sodium bicarbonate

2390. The tableting department of a pharmaceutival company begins to produce "fizzy" vitamin tablets. Name the groups of gas-producing leavening agents:

- a. Tartaric acid and magnesium stearate
- b. Citric acid and aerosil (fumed silica)

c. Tartaric acid and sodium bicarbonate

- d. Citric acid and magnesium stearate
- e. Ascorbic acid and aerosil (fumed silica)

2391. The tableting department of a pharmaceutival company begins to produce "fizzy" vitamin tablets. Name the groups of gas-producing leavening agents:

- a. Tartaric acid and magnesium stearate
- b. Citric acid and aerosil (fumed silica)
- c. Ascorbic acid and aerosil (fumed silica)

d. Tartaric acid and sodium bicarbonate

- e. Citric acid and magnesium stearate

2392. The thyme grass is used for the production of herbal medical products for the treatment of respiratory tract infections. Under the State Pharmacopoeia of Ukraine the herbal raw material is subject to chromatographic identification by means of thin layer chromatography. What substances are detected on the chromatographic plate after its treatment with due reagent?

- a. Apigenin and luteolin
- b. Quercetin and rutin
- c. Atropine and hyoscyamine
- d. Arbutin and methyl arbutin

e. Thymol and carvacrol

2393. The thyme grass is used for the production of herbal medical products for the treatment of respiratory tract infections. Under the State Pharmacopoeia of Ukraine the herbal raw material is subject to chromatographic identification by means of thin layer chromatography. What substances are detected on the chromatographic plate after its treatment with due reagent?

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b. Thymol and carvacrol

- c. Quercetin and rutin
- d. Apigenin and luteolin
- e. Arbutin and methyl arbutin

2395. The total turnover of goods at a pharmacy consists of retail and wholesale turnover. What belongs to the wholesale turnover?

a. Dispensing extemporaneous medicines manufactured by a pharmacy according to the inpatient prescriptions

- b. Dispensing medical products to outpatients
- c. Dispensing medicines according to outpatient prescriptions
- d. Dispensing over-the-counter medicines to the people
- e. Dispensing prescription medicines to the people

2396. The total turnover of goods at a pharmacy consists of retail and wholesale turnover. What belongs to the wholesale turnover?

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c. Dispensing medicines according to outpatient prescriptions

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e. Dispensing medical products to outpatients

2398. There are certain legal requirements to the format of a prescription. Physicians that have a private practice must state the following in the upper left corner of a prescription form:

a. Medical facility seal

b. License number

c. Own address, license number and its date of issue

d. Surname and initials of the doctor

e. Own address

2399. There are certain legal requirements to the format of a prescription. Physicians that have a private practice must state the following in the upper left corner of a prescription form:

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c. Medical facility seal

d. License number

e. Own address

2400. There are different grades and types of glass based on their quality, quantitative composition, and properties. What type of glass belongs to the first-grade?

a. MTB (colorless glass for medical containers)

b. USP-1

c. NS-2 A (neutral glass 2A)

d. NS-2 (neutral glass 2)

e. AB-1 (non-boric glass)

2401. There are different grades and types of glass based on their quality, quantitative composition, and properties. What type of glass belongs to the first-grade?

a. MTB (colorless glass for medical containers)

b. AB-1 (non-boric glass)

c. USP-1

d. NS-2 A (neutral glass 2A)

e. NS-2 (neutral glass 2)

2402. There are different grades and types of glass based on their quality, quantitative composition, and properties. What type of glass belongs to the first-grade?

a. NS-2 (neutral glass 2)

b. USP-1

c. AB-1 (non-boric glass)

d. NS-2 A (neutral glass 2A)

e. MTB (colorless glass for medical containers)

2403. There are several formal and informal groups among the pharmaceutical company's employees. What feature is characteristic of formal groups?

a. The group leader receives authority from the group

b. They are created to implement the production process

c. They form spontaneously

d. They form as a result of interest, sympathy

e. They resist changes in the organization

2404. There are several formal and informal groups among the pharmaceutical company's employees. What feature is characteristic of formal groups?

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c. The group leader receives authority from the group

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2406. There are several indirect taxes in the Ukrainian taxation system. What indirect tax is paid by the consumer as a surcharge to the value of goods?

a. Excise tax

b. Commercial patent

c. Single tax

d. Income tax

e. Individual income tax

2407. There are several indirect taxes in the Ukrainian taxation system. What indirect tax is paid by the consumer as a surcharge to the value of goods?

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2408. There are several indirect taxes in the Ukrainian taxation system. What indirect tax is paid by the consumer as a surcharge to the value of goods?

a. Individual income tax

b. Income tax

c. Single tax

d. Commercial patent

e. Excise tax

2409. There are six types of intra-pharmacy control. Which of them requires determination of total mass or volume of a dosage form, as well as the number of doses and the mass of each dose?

a. Chemical control

b. Survey control

c. Physical control

d. Organoleptic control

e. Written control

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b. Survey control

c. Physical control

- d. Chemical control
- e. Organoleptic control

2412. There are various groups of adjuvants used in tablet production. What is the function of excipients?

- a. To make pills of a certain weight**
- b. To create necessary adhesive force between particles
- c. To improve the taste
- d. To improve the flowability of granular material
- e. To improve disintegration

2413. There are various groups of adjuvants used in tablet production. What is the function of excipients?

- a. To improve disintegration
- b. To improve the taste
- c. To create necessary adhesive force between particles
- d. To make pills of a certain weight**
- e. To improve the flowability of granular material

2414. There are various groups of adjuvants used in tablet production. What is the function of excipients?

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- b. To improve the taste
- c. To create necessary adhesive force between particles
- d. To improve disintegration
- e. To make pills of a certain weight**

2415. Throughout the year, three employees voluntarily resigned from a pharmaceutical company. What type of employee movement is it?

- a. Staff turnover**
- b. Vertical job rotation
- c. Horizontal job rotation
- d. -
- e. Recruiting

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- b. Staff turnover**
- c. Recruiting
- d. Horizontal job rotation
- e. -

2418. Thymol and carvacrol are the main active substances of *Thymus vulgaris*. They belong to the following class of bioactive substances:

- a. Anthracene derivatives
- b. Alkaloids
- c. Essential oils**
- d. Iridoids
- e. Flavonoids

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b. Flavonoids

c. Anthracene derivatives

d. Essential oils

e. Alkaloids

2421. *Thymus serpyllum* grass is harvested in Ukraine. At what stage of plant growth is this herbal raw material harvested?

a. After harvesting the fruits

b. Before the flowering

c. When the fruits are ripe

d. Before the formation of green fruits

e. During the flowering stage

2422. *Thymus serpyllum* grass is harvested in Ukraine. At what stage of plant growth is this herbal raw material harvested?

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a. Before the flowering

b. During the flowering stage

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d. When the fruits are ripe

e. After harvesting the fruits

2424. To check the authenticity of *Helichrysum arenarium* flowers, magnesium powder and concentrated HCl were added to the extract obtained from the herbal raw material. What class of compounds is indicated in this case, if this reaction produces a red coloring?

a. Flavonoids

b. Polysaccharides

c. Vitamins

d. Tannins

e. Alkaloids

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e. Alkaloids

2427. To check the identity of a herbal raw material, several drops of an alcoholic solution of alpha-naphthol and concentrated sulfuric acid were applied to the root section of *Cichorium intybus* L.. It resulted in pink-violet coloring that indicates the presence of the following in the herbal raw material:

a. Essential oils

b. Inulin

c. Fatty oils

d. Slime

e. Pectin

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a. Slime

b. Inulin

c. Pectin

d. Fatty oils

e. Essential oils

2430. To confirm the presence of sulfat ions in the medicinal preparation of magnesium sulfate an analytical chemist of a pharmacy uses the following solutions:

a. Barium chloride and hydrochloric acid

b. Ammonium chloride and ammonium hydrate

c. Silver nitrate and nitric acid

d. Diphenylamine

e. Benzenesulfonic acid

2431. To confirm the presence of sulfat ions in the medicinal preparation of magnesium sulfate an analytical chemist of a pharmacy uses the following solutions:

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2432. To confirm the presence of sulfat ions in the medicinal preparation of magnesium sulfate an analytical chemist of a pharmacy uses the following solutions:

a. Silver nitrate and nitric acid

b. Benzenesulfonic acid

c. Diphenylamine

d. Barium chloride and hydrochloric acid

e. Ammonium chloride and ammonium hydrate

2433. To decrease business risks, a pharmaceutical company decided to expand its activity and penetrate into new market (to open a fitness center). Name this process:

a. Diversification

b. Modernization

c. Conglomeration

d. Intensification

e. Integration

2434. To decrease business risks, a pharmaceutical company decided to expand its activity and penetrate into new market (to open a fitness center). Name this process:

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- b. Diversification**
- c. Modernization
- d. Integration
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2435. To determine the quantity of wild-growing medicinal plants, it is necessary to know their area of vegetation and yield per unit area. Yield of *Thymus serpyllum* grass can be determined by the following method:

- a. Projective cover method**
- b. Geodesically
- c. Permanent quadrature method
- d. Visually
- e. Model sample method

2436. To determine the quantity of wild-growing medicinal plants, it is necessary to know their area of vegetation and yield per unit area. Yield of *Thymus serpyllum* grass can be determined by the following method:

- a. Geodesically
- b. Permanent quadrature method
- c. Visually
- d. Projective cover method**
- e. Model sample method

d. Projective cover method

2437. To determine the quantity of wild-growing medicinal plants, it is necessary to know their area of vegetation and yield per unit area. Yield of *Thymus serpyllum* grass can be determined by the following method:

- a. Permanent quadrature method
- b. Model sample method
- c. Visually
- d. Projective cover method**
- e. Geodesically

d. Projective cover method

2438. To ensure the quality of medicines the pharmacy devotes much attention to quality control. The following document is the quality assurance of a drug:

- a. Certificate of compliance with hygiene regulations
- b. Sanitary-epidemiological certificate
- c. Sanitary passport
- d. Quality certificate**
- e. Registration certificate

d. Quality certificate

2439. To ensure the quality of medicines the pharmacy devotes much attention to quality control. The following document is the quality assurance of a drug:

- a. Registration certificate
- b. Sanitary-epidemiological certificate
- c. Certificate of compliance with hygiene regulations
- d. Quality certificate**
- e. Sanitary passport

d. Quality certificate

2440. To ensure the quality of medicines the pharmacy devotes much attention to quality control. The following document is the quality assurance of a drug:

- a. Sanitary passport
- b. Quality certificate**
- c. Registration certificate
- d. Sanitary-epidemiological certificate
- e. Certificate of compliance with hygiene regulations

b. Quality certificate

2441. To identify a drug, an analytical chemist of the State Inspectorate for Drug Quality Control performs a reaction with ninhydrin solution. Specify the drug being identified:

- a. Methionine**

- b. Ascorbic acid
- c. Cortisone acetate
- d. Streptocide
- e. Paracetamol

2442. To identify a drug, an analytical chemist of the State Inspectorate for Drug Quality Control performs a reaction with ninhydrin solution. Specify the drug being identified:

- a. Ascorbic acid
- b. Cortisone acetate
- c. Paracetamol
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2443. To identify a drug, an analytical chemist of the State Inspectorate for Drug Quality Control performs a reaction with ninhydrin solution. Specify the drug being identified:

- a. Cortisone acetate
- b. Streptocide
- c. Paracetamol
- d. Ascorbic acid

e. Methionine

2444. To identify a drug, an analytical chemist used the reaction of azo dye formation. What drug was being analyzed in this case?

- a. Procaine hydrochloride**
- b. Clonidine hydrochloride
- c. Papaverine hydrochloride
- d. Pilocarpine hydrochloride
- e. Morphine hydrochloride

2445. To identify a drug, an analytical chemist used the reaction of azo dye formation. What drug was being analyzed in this case?

- a. Clonidine hydrochloride
- b. Papaverine hydrochloride
- c. Pilocarpine hydrochloride
- d. Morphine hydrochloride

e. Procaine hydrochloride

2446. To identify a drug, an analytical chemist used the reaction of azo dye formation. What drug was being analyzed in this case?

- a. Morphine hydrochloride
- b. Clonidine hydrochloride
- c. Pilocarpine hydrochloride

d. Procaine hydrochloride

e. Papaverine hydrochloride

2447. To identify a medicinal substance, an analytical chemist performed a reaction of azo dye formation. This reaction is characteristic of the following medicine:

- a. Chlorpropamide
- b. Phenyl salicylate

c. Benzocaine

- d. Resorcinol
- e. Acetylsalicylic acid

2448. To identify a medicinal substance, an analytical chemist performed a reaction of azo dye formation. This reaction is characteristic of the following medicine:

- a. Phenyl salicylate

b. Benzocaine

- c. Acetylsalicylic acid
- d. Chlorpropamide
- e. Resorcinol

2449. To identify a medicinal substance, an analytical chemist performed a reaction of azo dye formation. This reaction is characteristic of the following medicine:

a. Phenyl salicylate

b. Resorcinol

c. Benzocaine

d. Chlorpropamide

e. Acetylsalicylic acid

2450. To identify a substance, an analytical chemist performs a reaction with the cyanogen bromide reagent and aniline. What substance is being analyzed in this case?

a. Nicotinic acid

b. Salicylic acid

c. Ascorbic acid

d. Benzoic acid

e. Citric acid

2451. To identify a substance, an analytical chemist performs a reaction with the cyanogen bromide reagent and aniline. What substance is being analyzed in this case?

a. Benzoic acid

b. Salicylic acid

c. Ascorbic acid

d. Citric acid

e. Nicotinic acid

2452. To identify a substance, an analytical chemist performs a reaction with the cyanogen bromide reagent and aniline. What substance is being analyzed in this case?

a. Citric acid

b. Ascorbic acid

c. Benzoic acid

d. Nicotinic acid

e. Salicylic acid

2453. To identify acetylsalicylic acid, the substance is subjected to alkaline hydrolysis. After acidification of the reaction mixture, acetic acid is formed, which can be detected using the reaction with ethanol in the presence of concentrated sulfuric acid. What reaction product causes the characteristic odor in this case?

a. Ethyl acetate

b. Benzaldehyde

c. Sulfur dioxide

d. Ammonia

e. Pyridine

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a. Sulfur dioxide

b. Ammonia

c. Pyridine

d. Ethyl acetate

e. Benzaldehyde

2456. To identify an alkaloid drug, an analytical chemist used the reaction that produces purple-red murexide. What substance can be identified using this reaction?

a. Caffeine

b. Codeine

c. Papaverine

d. Atropine

e. Morphine

2457. To identify an alkaloid drug, an analytical chemist used the reaction that produces purple-red murexide. What substance can be identified using this reaction?

a. Atropine

b. Codeine

c. Papaverine

d. Caffeine

e. Morphine

2458. To identify an alkaloid drug, an analytical chemist used the reaction that produces purple-red murexide. What substance can be identified using this reaction?

a. Papaverine

b. Codeine

c. Caffeine

d. Morphine

e. Atropine

2459. To identify cardiac glycosides there are usually three groups of color reactions being performed: for steroid nucleus, for lactonic ring, and for carbohydrate component. Specify the reaction for identification of butenolide ring:

a. Legal's test

b. Dragendorff's test

c. Reaction of sublimation

d. Mayer's test

e. Stahl's reaction

2460. To identify cardiac glycosides there are usually three groups of color reactions being performed: for steroid nucleus, for lactonic ring, and for carbohydrate component. Specify the reaction for identification of butenolide ring:

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c. Dragendorff's test

d. Legal's test

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2461. To identify cardiac glycosides there are usually three groups of color reactions being performed: for steroid nucleus, for lactonic ring, and for carbohydrate component. Specify the reaction for identification of butenolide ring:

a. Stahl's reaction

b. Reaction of sublimation

c. Dragendorff's test

d. Legal's test

e. Mayer's test

2462. To identify ethanol an analytical chemist needs to conduct a:

a. Ninhydrin test

b. Hydroxamate test

c. Iodoform test

d. Thalleioquin test

e. Murexide test

2463. To identify ethanol an analytical chemist needs to conduct a:

a. Ninhydrin test

b. Murexide test

c. Thalleioquin test

d. Hydroxamate test

e. Iodoform test

2464. To identify ethanol an analytical chemist needs to conduct a:

- a. Thalleioquin test
- b. Ninhydrin test
- c. Iodoform test**
- d. Hydroxamate test
- e. Murexide test

2465. To identify pilocarpine hydrochloride it is necessary to use reaction with sodium nitroprusside in an alkaline medium (Legal's test). Resulting cherry-red coloring confirms presence of the following in the pilocarpine structure:

- a. Lactonic ring**
- b. Methyl group
- c. Imidazole ring
- d. Chloride ions
- e. Methylene group

2466. To identify pilocarpine hydrochloride it is necessary to use reaction with sodium nitroprusside in an alkaline medium (Legal's test). Resulting cherry-red coloring confirms presence of the following in the pilocarpine structure:

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- b. Lactonic ring**
- c. Methyl group
- d. Chloride ions
- e. Methylene group

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- a. Methyl group
- b. Methylene group
- c. Chloride ions
- d. Lactonic ring**
- e. Imidazole ring

2468. To identify vicasol (menadione), an analytical chemist places this substance moistened with hydrochloric acid into a colorless burner flame. The yellow flame coloring that develops as a result indicates the presence of the following cations in the molecule:

- a. Potassium
- b. Sodium**
- c. Magnesium
- d. Calcium
- e. Zinc

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- a. Zinc
- b. Calcium
- c. Sodium**
- d. Potassium
- e. Magnesium

2471. To improve iodine solubility in the purified water, iodine must be:

a. Dissolved in the saturated solution of potassium iodide

b. Comminuted with alcohol

c. Dissolved in the boiling water

d. Dispersed with glycerine

e. Reduced to fine powder

2472. To improve iodine solubility in the purified water, iodine must be:

a. Dissolved in the saturated solution of potassium iodide

b. Dispersed with glycerine

c. Reduced to fine powder

d. Dissolved in the boiling water

e. Comminuted with alcohol

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a. Dispersed with glycerine

b. Comminuted with alcohol

c. Dissolved in the saturated solution of potassium iodide

d. Dissolved in the boiling water

e. Reduced to fine powder

2474. To improve structural and mechanical properties of capsule shells, to ensure their proper elasticity and reduce their brittleness, the following substances are introduced into the gelatin mass:

a. Preservatives

b. Plasticizers

c. Stabilizers

d. Thickeners

e. Pigments

2475. To improve structural and mechanical properties of capsule shells, to ensure their proper elasticity and reduce their brittleness, the following substances are introduced into the gelatin mass:

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b. Plasticizers

c. Stabilizers

d. Preservatives

e. Pigments

2477. To increase its sales, the "Have a good day!" pharmacy introduced a discount system. According to this system if a customer buys 100 UAH worth of medical products, this customer receives 2% discount. What marketing communication has this pharmacy implemented?

a. Middlemen-oriented sales promotion

b. Consumer-oriented sales promotion

c. Personal sale

d. Salesmen-oriented sales promotion

e. Public relations, sponsorship

2478. To increase its sales, the "Have a good day!" pharmacy introduced a discount system. According to this system if a customer buys 100 UAH worth of medical products, this customer receives 2% discount. What marketing communication has this pharmacy implemented?

a. Public relations, sponsorship

b. Consumer-oriented sales promotion

c. Salesmen-oriented sales promotion

d. Personal sale

e. Middlemen-oriented sales promotion

2479. To increase its sales, the "Have a good day!" pharmacy introduced a discount system.

According to this system if a customer buys 100 UAH worth of medical products, this customer receives 2% discount. What marketing communication has this pharmacy implemented?

- a. Salesmen-oriented sales promotion
- b. Personal sale
- c. Public relations, sponsorship
- d. Middlemen-oriented sales promotion

e. Consumer-oriented sales promotion

2480. To increase the tone and specific rhythmic activity of the uterus, a certain ergot alkaloids-based herbal drug is used. Name this drug:

- a. Atropine sulfate
- b. Papaverine hydrochloride
- c. Codeine phosphate
- d. Morphine hydrochloride

e. Ergotamine hydrotartrate

2481. To increase the tone and specific rhythmic activity of the uterus, a certain ergot alkaloids-based herbal drug is used. Name this drug:

- a. Codeine phosphate
- b. Morphine hydrochloride

c. Ergotamine hydrotartrate

- d. Atropine sulfate
- e. Papaverine hydrochloride

2482. To increase the tone and specific rhythmic activity of the uterus, a certain ergot alkaloids-based herbal drug is used. Name this drug:

- a. Codeine phosphate
- b. Papaverine hydrochloride

c. Ergotamine hydrotartrate

- d. Morphine hydrochloride
- e. Atropine sulfate

2483. To measure out a small amount of liquid, a stactometer is used. How many drops are there in 1 mL of purified water, if we are to use a standard stactometer?

a. 20

- b. 10
- c. 30
- d. 50
- e. 40

2484. To measure out a small amount of liquid, a stactometer is used. How many drops are there in 1 mL of purified water, if we are to use a standard stactometer?

- a. 10
- b. 50

c. 20

- d. 40
- e. 30

2485. To measure out a small amount of liquid, a stactometer is used. How many drops are there in 1 mL of purified water, if we are to use a standard stactometer?

a. 40

b. 20

- c. 50
- d. 10
- e. 30

2486. To minimize business risks, the board of directors of a pharmaceutical company decides to expand into a market of plant protection products. Such approach to risk management is called:

a. Diversification

- b. Integration
- c. Consolidation
- d. Insurance

e. Intensification

2487. To minimize business risks, the board of directors of a pharmaceutical company decides to expand into a market of plant protection products. Such approach to risk management is called:

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c. Diversification

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e. Insurance

2488. To minimize business risks, the board of directors of a pharmaceutical company decides to expand into a market of plant protection products. Such approach to risk management is called:

a. Insurance

b. Intensification

c. Consolidation

d. Integration

e. Diversification

2489. To prepare a suspension a medicinal substance should be triturated with a small amount of liquid. Specify the optimal amount of liquid for trituration of 10 g of zinc oxide according to the Deriagin's rule:

a. 10 ml

b. 2 ml

c. 5 ml

d. 1 ml

e. 0,5 ml

2490. To prepare a suspension a medicinal substance should be triturated with a small amount of liquid. Specify the optimal amount of liquid for trituration of 10 g of zinc oxide according to the Deriagin's rule:

a. 2 ml

b. 1 ml

c. 0,5 ml

d. 5 ml

e. 10 ml

2491. To prepare a suspension a medicinal substance should be triturated with a small amount of liquid. Specify the optimal amount of liquid for trituration of 10 g of zinc oxide according to the Deriagin's rule:

a. 2 ml

b. 10 ml

c. 1 ml

d. 5 ml

e. 0,5 ml

2492. To prepare an ointment, a pharmacist has additionally used paraffin. What is the role of paraffin in the technology?

a. Dispersing agent for powders

b. Emulsifier

c. Vehicle

d. Preservative

e. Densifier

2493. To prepare an ointment, a pharmacist has additionally used paraffin. What is the role of paraffin in the technology?

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b. Densifier

c. Dispersing agent for powders

d. Preservative

e. Emulsifier

2494. To prepare an ointment, a pharmacist has additionally used paraffin. What is the role of paraffin in the technology?

- a. Vehicle
- b. Dispersing agent for powders

c. Densifier

- d. Preservative
- e. Emulsifier

2495. To prepare decoctions with the volume of 1000-3000 ml, they should be infused in a boiling water bath for:

- a. 15 minutes
- b. 25 minutes
- c. 45 minutes
- d. 30 minutes

e. 40 minutes

2496. To prepare decoctions with the volume of 1000-3000 ml, they should be infused in a boiling water bath for:

- a. 25 minutes
- b. 45 minutes

c. 40 minutes

- d. 30 minutes
- e. 15 minutes

2497. To prepare decoctions with the volume of 1000-3000 ml, they should be infused in a boiling water bath for:

- a. 45 minutes
- b. 15 minutes

c. 40 minutes

- d. 25 minutes
- e. 30 minutes

2498. To prepare eyedrops with antibiotic a dispensing chemist has been using flowing steam sterilization under 100°C for 30 minutes. What antibiotic allows for such sterilization?

a. Levomycetin (Chloramphenicol)

- b. Streptomycin sulfate
- c. Sodium benzylpenicillin
- d. Erythromycin
- e. Biomycin

2499. To prepare eyedrops with antibiotic a dispensing chemist has been using flowing steam sterilization under 100°C for 30 minutes. What antibiotic allows for such sterilization?

- a. Sodium benzylpenicillin
- b. Streptomycin sulfate

c. Levomycetin (Chloramphenicol)

- d. Biomycin
- e. Erythromycin

2500. To prepare eyedrops with antibiotic a dispensing chemist has been using flowing steam sterilization under 100°C for 30 minutes. What antibiotic allows for such sterilization?

a. Streptomycin sulfate

b. Levomycetin (Chloramphenicol)

- c. Biomycin
- d. Erythromycin
- e. Sodium benzylpenicillin

2501. To reduce business risks, a pharmaceutical company expands its business by entering new areas and industries that are unrelated to the drug manufacturing. Name this process.

a. Diversification

- b. Intensification
- c. Conglomeration
- d. Modernization
- e. Integration

2502. To reduce business risks, a pharmaceutical company expands its business by entering new

areas and industries that are unrelated to the drug manufacturing. Name this process.

- a. Integration
- b. Diversification**
- c. Intensification
- d. Modernization
- e. Conglomeration

2503. To reduce business risks, a pharmaceutical company expands its business by entering new areas and industries that are unrelated to the drug manufacturing. Name this process.

- a. Integration
- b. Intensification

c. Diversification

- d. Conglomeration
- e. Modernization

2504. To reduce business risks, the director of a pharmaceutical company has decided to withdraw a part of the profits and invest money into the restaurant business. Name the phenomenon, when the effort and capital are divided and invested into different types of business, the results of which are not directly related.

- a. Indexation
- b. Bankruptcy

c. Diversification

- d. Insurance
- e. Liquidation

2505. To reduce business risks, the director of a pharmaceutical company has decided to withdraw a part of the profits and invest money into the restaurant business. Name the phenomenon, when the effort and capital are divided and invested into different types of business, the results of which are not directly related.

- a. Indexation
- b. Insurance

c. Diversification

- d. Liquidation
- e. Bankruptcy

2506. To reduce business risks, the director of a pharmaceutical company has decided to withdraw a part of the profits and invest money into the restaurant business. Name the phenomenon, when the effort and capital are divided and invested into different types of business, the results of which are not directly related.

- a. Indexation
- b. Insurance
- c. Liquidation
- d. Bankruptcy

e. Diversification

2507. To replenish its fixed assets, the pharmacy made a decision to arrange a credit with the trading bank. What document must be concluded in writing between the creditor and the debtor in this case?

a. Credit contract

- b. Balance sheet
- c. License
- d. Auditor's conclusion
- e. Full material liability contract

2508. To replenish its fixed assets, the pharmacy made a decision to arrange a credit with the trading bank. What document must be concluded in writing between the creditor and the debtor in this case?

a. Full material liability contract

b. Credit contract

- c. License
- d. Balance sheet
- e. Auditor's conclusion

2509. To replenish its fixed assets, the pharmacy made a decision to arrange a credit with the trading

bank. What document must be concluded in writing between the creditor and the debtor in this case?

- a. License
- b. Balance sheet
- c. Auditor's conclusion

d. Credit contract

- e. Full material liability contract

2510. To restore the demand for a traditional medicine, the manufacturer has improved its characteristics, increased advertising costs, reduced prices, and involved new intermediaries. What type of marketing is used in this case?

- a. -

b. Remarketing

- c. Synchromarketing
- d. Conversion marketing
- e. Countermarketing

2511. To restore the demand for a traditional medicine, the manufacturer has improved its characteristics, increased advertising costs, reduced prices, and involved new intermediaries. What type of marketing is used in this case?

- a. Countermarketing
- b. -
- c. Synchromarketing
- d. Conversion marketing

e. Remarketing

2512. To restore the demand for a traditional medicine, the manufacturer has improved its characteristics, increased advertising costs, reduced prices, and involved new intermediaries. What type of marketing is used in this case?

- a. Countermarketing
- b. Synchromarketing

c. Remarketing

- d. -

- e. Conversion marketing

2513. To retain full control over its trade operations on the regional market, the "Fitoprom" pharmaceutical company conducts its marketing policy without any intermediate parties. Name the marketing practice that excludes the middleman:

a. Direct

- b. Mixed
- c. Mediated
- d. Indirect
- e. Combined

2514. To retain full control over its trade operations on the regional market, the "Fitoprom" pharmaceutical company conducts its marketing policy without any intermediate parties. Name the marketing practice that excludes the middleman:

- a. Combined

b. Direct

- c. Mediated
- d. Indirect
- e. Mixed

2515. To retain full control over its trade operations on the regional market, the "Fitoprom" pharmaceutical company conducts its marketing policy without any intermediate parties. Name the marketing practice that excludes the middleman:

- a. Indirect

b. Direct

- c. Combined
- d. Mediated
- e. Mixed

2516. To stabilize the suspension a pharmacist has used potassium soap. What substance does this

suspension contain?

a. Sulfur

- b. Camphor
- c. Menthol
- d. Basic bismuth nitrate
- e. Phenyl salicylate

2517. To stabilize the suspension a pharmacist has used potassium soap. What substance does this suspension contain?

a. Sulfur

- b. Phenyl salicylate
- c. Camphor
- d. Menthol
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2518. To stabilize the suspension a pharmacist has used potassium soap. What substance does this suspension contain?

- a. Camphor
- b. Menthol
- c. Basic bismuth nitrate

d. Sulfur

e. Phenyl salicylate

2519. To treat iron-deficiency anemia the following drug is usually prescribed:

a. Ferroxel

- b. Vicasol (Menadione)
- c. Heparin
- d. Furagin (Furazidinum)
- e. Corticosteroids

2520. To treat iron-deficiency anemia the following drug is usually prescribed:

- a. Corticosteroids
- b. Furagin (Furazidinum)

c. Ferroxel

- d. Vicasol (Menadione)
- e. Heparin

2521. To treat iron-deficiency anemia the following drug is usually prescribed:

- a. Heparin
- b. Vicasol (Menadione)
- c. Furagin (Furazidinum)

d. Ferroxel

e. Corticosteroids

2522. To work properly, a pharmacy needs sufficient staff. What job position belongs to the auxiliary staff of a pharmacy?

a. Packer

- b. -
- c. Pharmacist
- d. Head of a department
- e. Accountant

2523. To work properly, a pharmacy needs sufficient staff. What job position belongs to the auxiliary staff of a pharmacy?

- a. -
- b. Head of a department
- c. Accountant

d. Packer

e. Pharmacist

2524. To work properly, a pharmacy needs sufficient staff. What job position belongs to the auxiliary staff of a pharmacy?

- a. -

- b. Head of a department
- c. Pharmacist

d. Packer

- e. Accountant

2525. Tosylchloramide sodium (chloramine) has a disinfecting effect due to the release of active chlorine in an acidic medium. What method is used to quantify it?

a. Iodometry

- b. Nitritometry
- c. Permanganatometry
- d. Iodochlorometry
- e. Complexonometry

2526. Tosylchloramide sodium (chloramine) has a disinfecting effect due to the release of active chlorine in an acidic medium. What method is used to quantify it?

- a. Complexonometry
- b. Iodochlorometry
- c. Permanganatometry
- d. Nitritometry

e. Iodometry

2527. Tosylchloramide sodium (chloramine) has a disinfecting effect due to the release of active chlorine in an acidic medium. What method is used to quantify it?

- a. Nitritometry
- b. Permanganatometry

c. Iodometry

- d. Complexonometry
- e. Iodochlorometry

2528. Tussilago farfara leaves are a component of drugs that exhibit coating, expectorant, and softening effect. What class of bioactive substances determines such pharmacological characteristics of this raw material?

a. Polysaccharides

- b. Saponins
- c. Essential oils
- d. Phenolic glycosides
- e. Vitamins

2529. Tussilago farfara leaves are a component of drugs that exhibit coating, expectorant, and softening effect. What class of bioactive substances determines such pharmacological characteristics of this raw material?

- a. Vitamins
- b. Phenolic glycosides
- c. Essential oils
- d. Saponins

e. Polysaccharides

2530. Tussilago farfara leaves are a component of drugs that exhibit coating, expectorant, and softening effect. What class of bioactive substances determines such pharmacological characteristics of this raw material?

- a. Vitamins
- b. Saponins

c. Polysaccharides

- d. Essential oils
- e. Phenolic glycosides

2531. Tween-80 is being introduced into an emulsion system. What is the role of Tween-80 in emulsions?

- a. Antioxidant
- b. Preservative
- c. Solvent
- d. Taste correction agent

e. Emulsifier

2532. Tween-80 is being introduced into an emulsion system. What is the role of Tween-80 in emulsions?

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- b. Solvent
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e. Emulsifier

2533. Tween-80 is being introduced into an emulsion system. What is the role of Tween-80 in emulsions?

- a. Solvent
- b. Preservative
- c. Taste correction agent

d. Emulsifier

e. Antioxidant

2534. Tyndallization is used at a pharmaceutical factory as one of sterilization methods for thermolabile substances. What is the essence of this method?

- a. Autoclaving at 119-121°C with pressure at 1,0-1,1 atm
- b. Sterilization with flowing steam at 100°C

c. Triple heating of solution to 40-60°C with 24-hour-long intervals in between for thermostating

- d. Sterilization with high-frequency and microwave frequency current
- e. Sterilization with dry heat at 180-200°C for a lengthy period of time

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- b. Triple heating of solution to 40-60°C with 24-hour-long intervals in between for thermostating**
- c. Sterilization with high-frequency and microwave frequency current
- d. Sterilization with dry heat at 180-200°C for a lengthy period of time
- e. Autoclaving at 119-121°C with pressure at 1,0-1,1 atm

2537. Under the current legislation there is a certain list of controlled substances that require keeping of the special inventory log. Select the drug that belongs on this list:

a. Phenobarbital

- b. Analgin (Metamizole)
- c. Digoxin
- d. Solpadeine
- e. Novocaine

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a. Solpadeine

b. Phenobarbital

- c. Digoxin

d. Analgin (Metamizole)

e. Novocaine

2540. Under the current legislation, full or partial exemption of persons and legal entities from tax payment is called:

a. Subject to taxation

b. Tax system

c. Tax rate

d. Tax concession

e. Tax

2541. Under the current legislation, full or partial exemption of persons and legal entities from tax payment is called:

a. Tax rate

b. Subject to taxation

c. Tax

d. Tax concession

e. Tax system

2542. Under the current legislation, full or partial exemption of persons and legal entities from tax payment is called:

a. Tax system

b. Subject to taxation

c. Tax concession

d. Tax rate

e. Tax

2543. Urethral suppositories are being made for a patient. What parameters should be specified by the doctor in the formulation for the pharmacist to be able to calculate the necessary amount of the vehicle correctly?

a. Length and quantity of the suppositories

b. Diameter and vehicle of the suppositories

c. Diameter and quantity of the suppositories

d. Diameter, length, and quantity of the suppositories

e. Quantity and vehicle of the suppositories

2544. Urethral suppositories are being made for a patient. What parameters should be specified by the doctor in the formulation for the pharmacist to be able to calculate the necessary amount of the vehicle correctly?

a. Quantity and vehicle of the suppositories

b. Diameter, length, and quantity of the suppositories

c. Diameter and quantity of the suppositories

d. Diameter and vehicle of the suppositories

e. Length and quantity of the suppositories

2545. Urethral suppositories are being made for a patient. What parameters should be specified by the doctor in the formulation for the pharmacist to be able to calculate the necessary amount of the vehicle correctly?

a. Quantity and vehicle of the suppositories

b. Diameter and vehicle of the suppositories

c. Diameter and quantity of the suppositories

d. Length and quantity of the suppositories

e. Diameter, length, and quantity of the suppositories

2546. Valerian roots and rhizomes are processed in the phytochemistry workshop to produce tinctures and thick extracts that are the components of combined sedatives. Name the group of bioactive compounds that includes valerian valepotriates, - valtrate, acevaltrate, and dihydrovaltrate:

a. Polysaccharides

b. Iridoids

c. Alkaloids

d. Essential oils

e. Saponins

2547. Valerian roots and rhizomes are processed in the phytochemistry workshop to produce tinctures and thick extracts that are the components of combined sedatives. Name the group of bioactive compounds that includes valerian valepotriates, - valtrate, acevaltrate, and dihydrovaltrate:

- a. Saponins
- b. Alkaloids
- c. Essential oils

d. Iridoids

- e. Polysaccharides

2548. Valerian roots and rhizomes are processed in the phytochemistry workshop to produce tinctures and thick extracts that are the components of combined sedatives. Name the group of bioactive compounds that includes valerian valepotriates, - valtrate, acevaltrate, and dihydrovaltrate:

- a. Saponins
- b. Polysaccharides

c. Iridoids

- d. Alkaloids
- e. Essential oils

2549. Various admixtures are possible in the process of harvesting, drying, and primary processing of herbal raw material. Organic admixtures include:

a. Non-harvested parts of the same plant

- b. Metallic objects
- c. Glass fragments
- d. Soil particles
- e. Sand

2550. Various admixtures are possible in the process of harvesting, drying, and primary processing of herbal raw material. Organic admixtures include:

a. Non-harvested parts of the same plant

- b. Metallic objects
- c. Sand
- d. Soil particles
- e. Glass fragments

2551. Various admixtures are possible in the process of harvesting, drying, and primary processing of herbal raw material. Organic admixtures include:

- a. Metallic objects
- b. Soil particles
- c. Glass fragments
- d. Sand

e. Non-harvested parts of the same plant

2552. Various groups of propellants are used in production of aerosols. What group does carbon dioxide CO₂ belong to?

a. Compressed gases

- b. Liquefied gases
- c. Non-volatile gases
- d. Rarefied gases
- e. Volatile gases

2553. Various groups of propellants are used in production of aerosols. What group does carbon dioxide CO₂ belong to?

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- c. Rarefied gases
- d. Liquefied gases
- e. Non-volatile gases

2554. Various groups of propellants are used in production of aerosols. What group does carbon dioxide CO₂ belong to?

- a. Liquefied gases
- b. Volatile gases

c. Compressed gases

d. Non-volatile gases

e. Rarefied gases

2555. Various types of dryers can be used for granule dehumidification. Specify the type of "СП-30" dryer:

a. Fluidized bed dryer

b. Silica gel dryer

c. Infrared dryer

d. Freeze dryer

e. Forced air dryer

2556. Various types of dryers can be used for granule dehumidification. Specify the type of "СП-30" dryer:

a. Freeze dryer

b. Silica gel dryer

c. Forced air dryer

d. Infrared dryer

e. Fluidized bed dryer

2557. Various types of dryers can be used for granule dehumidification. Specify the type of "СП-30" dryer:

a. Silica gel dryer

b. Infrared dryer

c. Forced air dryer

d. Fluidized bed dryer

e. Freeze dryer

2558. Various types of glass are used in production of parenteral drugs. What type of glass is used for photosensitive substances?

a. Light-resistant neutral glass "CHC-1"

b. Alkaline glass "АБ-1"

c. Neutral glass "HC-2"

d. Borosilicate neutral glass "УСП -1"

e. Neutral glass "HC-2A"

2559. Various types of glass are used in production of parenteral drugs. What type of glass is used for photosensitive substances?

a. Light-resistant neutral glass "CHC-1"

b. Alkaline glass "АБ-1"

c. Neutral glass "HC-2A"

d. Neutral glass "HC-2"

e. Borosilicate neutral glass "УСП -1"

2560. Various types of glass are used in production of parenteral drugs. What type of glass is used for photosensitive substances?

a. Borosilicate neutral glass "УСП -1"

b. Neutral glass "HC-2A"

c. Light-resistant neutral glass "CHC-1"

d. Alkaline glass "АБ-1"

e. Neutral glass "HC-2"

2561. Veratrum water is used as an antiparasitic agent and is very toxic, which is why it can be used only externally. What class of bioactive substances causes this effect?

a. Cardiac glycosides

b. Alkaloids

c. Thioglycosides

d. Fatty oils

e. Steroidal saponins

2562. Veratrum water is used as an antiparasitic agent and is very toxic, which is why it can be used only externally. What class of bioactive substances causes this effect?

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- b. Fatty oils
- c. Cardiac glycosides

d. Alkaloids

- e. Thioglycosides

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- b. Thioglycosides
- c. Cardiac glycosides

d. Alkaloids

- e. Fatty oils

2564. Vinblastine and Vincristine demonstrate antitumor activity. Name the herbal raw material used in production of these medicines:

- a. Folia Berberidis
- b. Herba Selaginis

c. Folia Catharanthi rosei

- d. Herba Vincae minoris
- e. Rhizomata Nupharis lutei

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- a. Folia Berberidis
- b. Rhizomata Nupharis lutei
- c. Herba Selaginis
- d. Herba Vincae minoris

e. Folia Catharanthi rosei

2567. Vitali-Morin's reaction is used to identify tropane alkaloids in herbal raw material. Name the alkaloid that can be detected by means of this specific reaction:

a. Scopolamine

- b. Platyphyllin
- c. Morphine
- d. Papaverine
- e. Codeine

2568. Vitali-Morin's reaction is used to identify tropane alkaloids in herbal raw material. Name the alkaloid that can be detected by means of this specific reaction:

- a. Papaverine

b. Scopolamine

- c. Platyphyllin
- d. Codeine
- e. Morphine

2569. Vitali-Morin's reaction is used to identify tropane alkaloids in herbal raw material. Name the alkaloid that can be detected by means of this specific reaction:

- a. Platyphyllin
- b. Codeine
- c. Papaverine

d. Scopolamine

- e. Morphine

2570. Vitamin K is known to take part in formation of prothrombin and to facilitate blood coagulation. What herbal raw material accumulates significant amounts of vitamin K and has a hemostatic effect?

a. Semina Hippocastani

b. Folia Urticae

c. Folia Fragariae

d. Folia Menthae piperitae

e. Fructus Hippophaes

2571. Vitamin K is known to take part in formation of prothrombin and to facilitate blood coagulation. What herbal raw material accumulates significant amounts of vitamin K and has a hemostatic effect?

a. Semina Hippocastani

b. Folia Fragariae

c. Folia Menthae piperitae

d. Folia Urticae

e. Fructus Hippophaes

2572. Vitamin K is known to take part in formation of prothrombin and to facilitate blood coagulation. What herbal raw material accumulates significant amounts of vitamin K and has a hemostatic effect?

a. Semina Hippocastani

b. Fructus Hippophaes

c. Folia Fragariae

d. Folia Menthae piperitae

e. Folia Urticae

2573. Weibel's liquid is necessary to stabilize the solution of a certain substance. Name this substance:

a. Glucose

b. Novocaine

c. Potassium chloride

d. Magnesium sulfate

e. Sodium chloride

2574. Weibel's liquid is necessary to stabilize the solution of a certain substance. Name this substance:

a. Magnesium sulfate

b. Glucose

c. Sodium chloride

d. Potassium chloride

e. Novocaine

2575. Weibel's liquid is necessary to stabilize the solution of a certain substance. Name this substance:

a. Sodium chloride

b. Magnesium sulfate

c. Potassium chloride

d. Novocaine

e. Glucose

2576. What activity of a pharmaceutical company includes improvement of employees' working and living conditions, healthcare and medical insurance and other means of social development?

a. Social responsibility

b. Industrial activity

c. Charity

d. Financial activity

e. Commercial activity

2577. What activity of a pharmaceutical company includes improvement of employees' working and living conditions, healthcare and medical insurance and other means of social development?

a. Financial activity

b. Social responsibility

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d. Commercial activity

e. Industrial activity

2578. What activity of a pharmaceutical company includes improvement of employees' working and

living conditions, healthcare and medical insurance and other means of social development?

- a. Financial activity
- b. Social responsibility**
- c. Charity
- d. Industrial activity
- e. Commercial activity

2579. What adjuvants are added to a tablet mass to promote its breakup?

- a. Disintegrants**
- b. Fillers
- c. Thickeners
- d. Lubricants
- e. Antioxidants

2580. What adjuvants are added to a tablet mass to promote its breakup?

- a. Disintegrants**
- b. Lubricants
- c. Fillers
- d. Antioxidants
- e. Thickeners

2581. What adjuvants are added to a tablet mass to promote its breakup?

- a. Disintegrants**
- b. Lubricants
- c. Thickeners
- d. Fillers
- e. Antioxidants

2582. What adjuvants are used in manufacturing of tablets to change their taste?

- a. Corrigents**
- b. Thickeners
- c. Fillers
- d. Antioxidants
- e. Leavening agents

2583. What adjuvants are used in manufacturing of tablets to change their taste?

- a. Fillers
- b. Antioxidants
- c. Leavening agents
- d. Thickeners

e. Corrigents

2584. What adjuvants are used in manufacturing of tablets to change their taste?

- a. Thickeners
- b. Leavening agents
- c. Fillers
- d. Antioxidants

e. Corrigents

2585. What adjuvants can increase the viscosity and melting temperature of an ointment base?

- a. Paraffin, spermaceti**
- b. Benzalkonium chloride
- c. Ethanol, purified water
- d. Propylene glycol, gelatin
- e. Sodium lauryl sulfate

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- b. Sodium lauryl sulfate
- c. Ethanol, purified water
- d. Benzalkonium chloride
- e. Propylene glycol, gelatin

2587. What adjuvants can increase the viscosity and melting temperature of an ointment base?

- a. Propylene glycol, gelatin
- b. Sodium lauryl sulfate
- c. Benzalkonium chloride

d. Paraffin, spermaceti

- e. Ethanol, purified water

2588. What adjuvants improve the wettability and water permeability of the components during the tablet production?

- a. Antifriction materials

b. Leaveners

- c. Solvents
- d. Film formers
- e. Thickeners

2589. What adjuvants improve the wettability and water permeability of the components during the tablet production?

- a. Film formers

- b. Solvents

c. Leaveners

- d. Antifriction materials

- e. Thickeners

2590. What adjuvants improve the wettability and water permeability of the components during the tablet production?

- a. Solvents

b. Leaveners

- c. Thickeners

- d. Antifriction materials

- e. Film formers

2591. What amount of the standard pharmacopoeial fluid of aluminum acetate must be taken to prepare 100 mL of 10% Burov's solution?

a. 10 mL

- b. 3 mL

- c. 6.25 mL

- d. 12.5 mL

- e. 7.5 mL

2592. What amount of the standard pharmacopoeial fluid of aluminum acetate must be taken to prepare 100 mL of 10% Burov's solution?

- a. 3 mL

- b. 6.25 mL

- c. 7.5 mL

- d. 12.5 mL

e. 10 mL

2593. What amount of the standard pharmacopoeial fluid of aluminum acetate must be taken to prepare 100 mL of 10% Burov's solution?

- a. 3 mL

- b. 7.5 mL

- c. 6.25 mL

- d. 12.5 mL

e. 10 mL

2594. What amount of the standard pharmacopoeial formaldehyde solution must be taken to prepare 100 mL of a 20% formalin solution?

- a. 10 mL

- b. 54 mL

c. 20 mL

- d. 30 mL

- e. 5 mL

2595. What amount of the standard pharmacopoeial formaldehyde solution must be taken to prepare

100 mL of a 20% formalin solution?

- a. 30 mL
- b. 10 mL
- c. 54 mL
- d. 20 mL**
- e. 5 mL

2596. What amount of the standard pharmacopoeial formaldehyde solution must be taken to prepare 100 mL of a 20% formalin solution?

- a. 30 mL
- b. 5 mL
- c. 20 mL**
- d. 10 mL
- e. 54 mL

2597. What amount of toxic substance and vehicle is contained in 10.0 of trituration (1:10)?

- a. 0.01 and 9.99
- b. 0.1 and 9.9
- c. 1.0 and 9.0**
- d. 0.05 and 9.95
- e. 0.5 and 9.5

2598. What amount of toxic substance and vehicle is contained in 10.0 of trituration (1:10)?

- a. 0.05 and 9.95
- b. 0.5 and 9.5
- c. 1.0 and 9.0**
- d. 0.1 and 9.9
- e. 0.01 and 9.99

2599. What amount of toxic substance and vehicle is contained in 10.0 of trituration (1:10)?

- a. 0.5 and 9.5
- b. 1.0 and 9.0**
- c. 0.1 and 9.9
- d. 0.05 and 9.95
- e. 0.01 and 9.99

2600. What antacid can cause constipations, osteoporosis, and encephalopathy when taken for a long period of time?

- a. Magnesium oxide
- b. Calcium carbonate
- c. Sodium bicarbonate
- d. Aluminium hydroxide**
- e. Sodium alginate

2601. What antacid can cause constipations, osteoporosis, and encephalopathy when taken for a long period of time?

- a. Sodium bicarbonate
- b. Aluminium hydroxide**
- c. Calcium carbonate
- d. Sodium alginate
- e. Magnesium oxide

2602. What antibacterial agent is a part of the eradication therapy for H. pylori during the treatment of peptic ulcer disease of the stomach?

- a. Clarithromycin**
- b. Meropenem
- c. Biseptol (Co-trimoxazole)
- d. Gentamicin
- e. Ceftriaxone

2603. What antibacterial agent is a part of the eradication therapy for H. pylori during the treatment of peptic ulcer disease of the stomach?

- a. Gentamicin

- b. Biseptol (Co-trimoxazole)
- c. Meropenem
- d. Ceftriaxone

e. Clarithromycin

2604. What antibacterial agent is a part of the eradication therapy for H. pylori during the treatment of peptic ulcer disease of the stomach?

a. Meropenem

b. Clarithromycin

- c. Gentamicin
- d. Biseptol (Co-trimoxazole)
- e. Ceftriaxone

2605. What antibacterial drug is most effective against chronic gastritis associated with Helicobacter pylori infection?

a. Ceftriaxone

b. Clarithromycin

- c. Co-trimoxazole
- d. Lincomycin
- e. Levomycetin (Chloramphenicol)

2606. What antibacterial drug is most effective against chronic gastritis associated with Helicobacter pylori infection?

a. Ceftriaxone

b. Lincomycin

c. Clarithromycin

- d. Levomycetin (Chloramphenicol)
- e. Co-trimoxazole

2607. What antibacterial drug is most effective against chronic gastritis associated with Helicobacter pylori infection?

a. Lincomycin

b. Co-trimoxazole

c. Levomycetin (Chloramphenicol)

d. Ceftriaxone

e. Clarithromycin

2608. What antibiotic has beta-lactam cycle in its structure?

a. Doxycycline hyclate

b. Benzylpenicillin potassium salt

- c. Streptomycin sulfate
- d. Chloramphenicol
- e. Lincomycin hydrochloride

2609. What antibiotic has beta-lactam cycle in its structure?

a. Doxycycline hyclate

b. Chloramphenicol

c. Lincomycin hydrochloride

d. Streptomycin sulfate

e. Benzylpenicillin potassium salt

2610. What antibiotic has beta-lactam cycle in its structure?

a. Lincomycin hydrochloride

b. Doxycycline hyclate

c. Chloramphenicol

d. Benzylpenicillin potassium salt

e. Streptomycin sulfate

2611. What can be observed when aluminum-magnesium antacids and iron preparation are used simultaneously?

a. Decreased blood pressure

b. Reduced effectiveness of iron preparations

c. Increased blood pressure

- d. Increased effectiveness of antacids
- e. Increased risk of hepatotoxicity

2612. What can be observed when aluminum-magnesium antacids and iron preparation are used simultaneously?

- a. Decreased blood pressure
- b. Increased effectiveness of antacids
- c. Increased blood pressure
- d. Increased risk of hepatotoxicity

e. Reduced effectiveness of iron preparations

2613. What can be observed when aluminum-magnesium antacids and iron preparation are used simultaneously?

- a. Increased effectiveness of antacids
- b. Increased blood pressure
- c. Decreased blood pressure
- d. Increased risk of hepatotoxicity

e. Reduced effectiveness of iron preparations

2614. What concept can be described as "...an area of exchange with its characteristic system of economic relations between goods manufacturers and consumers"?

a. Agreement

b. Market

c. Marketing

d. Sales

e. Management

2615. What concept can be described as "...an area of exchange with its characteristic system of economic relations between goods manufacturers and consumers"?

a. Marketing

b. Agreement

c. Market

d. Management

e. Sales

2616. What concept can be described as "...an area of exchange with its characteristic system of economic relations between goods manufacturers and consumers"?

a. Sales

b. Marketing

c. Market

d. Agreement

e. Management

2617. What corticosteroid medicinal substance has two fluorine atoms in its chemical structure?

a. Fluocinolone acetonide

b. Hydrocortisone acetate

c. Prednisolone

d. Triamcinolone acetonide

e. Dexamethasone

2618. What corticosteroid medicinal substance has two fluorine atoms in its chemical structure?

a. Dexamethasone

b. Prednisolone

c. Triamcinolone acetonide

d. Fluocinolone acetonide

e. Hydrocortisone acetate

2619. What corticosteroid medicinal substance has two fluorine atoms in its chemical structure?

a. Hydrocortisone acetate

b. Triamcinolone acetonide

c. Prednisolone

d. Fluocinolone acetonide

e. Dexamethasone

2620. What department of a pharmaceutical wholesaler analyzes the demand for medicines and implements measures to stimulate their sales?

a. Marketing

b. Transport

c. Storage

d. Automated accounting

e. Procurement

2621. What department of a pharmaceutical wholesaler analyzes the demand for medicines and implements measures to stimulate their sales?

a. Automated accounting

b. Procurement

c. Marketing

d. Storage

e. Transport

2622. What department of a pharmaceutical wholesaler analyzes the demand for medicines and implements measures to stimulate their sales?

a. Automated accounting

b. Storage

c. Marketing

d. Transport

e. Procurement

2623. What department of a wholesale firm is tasked with search for and analysis of potential suppliers' commercial offers, as well as concluding supply contracts and supervision of contract fulfillment?

a. Supply department

b. Shipping department

c. Stores development

d. Finance department

e. Marketing department

2624. What department of a wholesale firm is tasked with search for and analysis of potential suppliers' commercial offers, as well as concluding supply contracts and supervision of contract fulfillment?

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b. Shipping department

c. Supply department

d. Stores development

e. Finance department

2625. What department of a wholesale firm is tasked with search for and analysis of potential suppliers' commercial offers, as well as concluding supply contracts and supervision of contract fulfillment?

a. Marketing department

b. Stores development

c. Shipping department

d. Finance department

e. Supply department

2626. What device is used to disperse medicinal substances and homogenize ointments?

a. Dismembrator

b. Disintegrator

c. Double-slide tablet press machine

d. Excelsior

e. Three-roll ointment mill

2627. What device is used to disperse medicinal substances and homogenize ointments?

a. Double-slide tablet press machine

b. Disintegrator

c. Dismembrator

d. Three-roll ointment mill

e. Excelsior

2628. What device is used to disperse medicinal substances and homogenize ointments?

a. Double-slide tablet press machine

b. Excelsior

c. Dismembrator

d. Disintegrator

e. Three-roll ointment mill

2629. What document is used during transactions with consumers, confirming the fact of sale or return of goods and the fact of receiving a payment or making a refund?

a. Request for a cash transfer

b. Fiscal cash receipt for the goods/services

c. Cash book

d. Transactions ledger

e. Accompanying statement to the bag with cash

2630. What document is used during transactions with consumers, confirming the fact of sale or return of goods and the fact of receiving a payment or making a refund?

a. Request for a cash transfer

b. Accompanying statement to the bag with cash

c. Transactions ledger

d. Fiscal cash receipt for the goods/services

e. Cash book

2631. What document is used during transactions with consumers, confirming the fact of sale or return of goods and the fact of receiving a payment or making a refund?

a. Request for a cash transfer

b. Cash book

c. Fiscal cash receipt for the goods/services

d. Accompanying statement to the bag with cash

e. Transactions ledger

2632. What document must be added to the foreign-made medical products?

a. Extract from the State Register of Medicines

b. Technical regulations for the drug

c. Conclusion on the quality of the drug imported into Ukraine

d. Written Control Passport

e. Drug Quality Standard

2633. What document must be added to the foreign-made medical products?

a. Technical regulations for the drug

b. Drug Quality Standard

c. Written Control Passport

d. Conclusion on the quality of the drug imported into Ukraine

e. Extract from the State Register of Medicines

2634. What document must be added to the foreign-made medical products?

a. Technical regulations for the drug

b. Written Control Passport

c. Extract from the State Register of Medicines

d. Conclusion on the quality of the drug imported into Ukraine

e. Drug Quality Standard

2635. What document must be prepared by a pharmacy's cashier for the cash collection?

a. Cash book

b. Cashier's check

c. Accompanying statement

d. Payment order

e. Cash deposit slip

2636. What document must be prepared by a pharmacy's cashier for the cash collection?

a. Cash deposit slip

- b. Cashier's check
- c. Cash book
- d. Payment order

e. Accompanying statement

2637. What document must be prepared by a pharmacy's cashier for the cash collection?

- a. Cashier's check
- b. Cash deposit slip
- c. Cash book

d. Accompanying statement

e. Payment order

2638. What drug facilitates dissolution of cholesterol stones in the gallbladder?

a. Ursodeoxycholic acid

- b. Magnesium sulfate
- c. Silybum dry extract
- d. Cynara dry extract
- e. Ademethionine

2639. What drug facilitates dissolution of cholesterol stones in the gallbladder?

- a. Ademethionine
- b. Magnesium sulfate
- c. Silybum dry extract
- d. Cynara dry extract

e. Ursodeoxycholic acid

2640. What drug facilitates dissolution of cholesterol stones in the gallbladder?

- a. Magnesium sulfate
- b. Silybum dry extract
- c. Ademethionine

d. Ursodeoxycholic acid

e. Cynara dry extract

2641. What drug is used to treat hyperthyroidism?

- a. Insulin
- b. Prednisolone
- c. Oxytocin
- d. Metformin

e. Mercazolil (Thiamazole)

2642. What drug is used to treat hyperthyroidism?

a. Metformin

b. Mercazolil (Thiamazole)

- c. Prednisolone
- d. Oxytocin
- e. Insulin

2643. What drug is used to treat hyperthyroidism?

- a. Metformin
- b. Prednisolone
- c. Insulin
- d. Oxytocin

e. Mercazolil (Thiamazole)

2644. What drug should be used first in case of anaphylactic shock?

a. Prednisolone

- b. Euphyllin (Aminophylline)
- c. Dibazol (Bendazol)
- d. Loratadine
- e. Fexofenadine

2645. What drug should be used first in case of anaphylactic shock?

a. Euphyllin (Aminophylline)

b. Prednisolone

- c. Fexofenadine
- d. Loratadine
- e. Dibazol (Bendazol)

2646. What drug should be used first in case of anaphylactic shock?

- a. Euphyllin (Aminophylline)
- b. Loratadine
- c. Fexofenadine

d. Prednisolone

- e. Dibazol (Bendazol)

2647. What drug, due to beta-lactam ring in its structure, has positive reaction with hydroxylamine hydrochloride solution in the presence of sodium hydroxide with subsequent addition of iron (III) chloride solution?

a. Amoxicillin trihydrate

- b. Dibazol (Bendazol)
- c. Papaverine hydrochloride
- d. Phenazone
- e. Metronidazole

2648. What drug, due to beta-lactam ring in its structure, has positive reaction with hydroxylamine hydrochloride solution in the presence of sodium hydroxide with subsequent addition of iron (III) chloride solution?

- a. Dibazol (Bendazol)
- b. Phenazone
- c. Metronidazole
- d. Papaverine hydrochloride

e. Amoxicillin trihydrate

2649. What drug, due to beta-lactam ring in its structure, has positive reaction with hydroxylamine hydrochloride solution in the presence of sodium hydroxide with subsequent addition of iron (III) chloride solution?

- a. Phenazone
- b. Dibazol (Bendazol)
- c. Metronidazole
- d. Papaverine hydrochloride

e. Amoxicillin trihydrate

2650. What economic parameter characterizes the effectiveness of the pharmacy's commercial, financial, and manufacturing activity?

- a. Circulation of goods
- b. Stock of goods
- c. Inventory turnover
- d. Work productivity

e. Profitability

2651. What economic parameter characterizes the effectiveness of the pharmacy's commercial, financial, and manufacturing activity?

- a. Inventory turnover
- b. Stock of goods
- c. Work productivity
- d. Circulation of goods

e. Profitability

2652. What economic parameter characterizes the effectiveness of the pharmacy's commercial, financial, and manufacturing activity?

- a. Stock of goods

b. Profitability

- c. Circulation of goods
- d. Work productivity
- e. Inventory turnover

2653. What effect will anthracene derivatives have, if -OH- groups are located in both benzene rings

of anthraquinone?

a. Laxative

b. Diuretic

c. Litholytic

d. Choleric

e. Sedative

2654. What effect will anthracene derivatives have, if -OH- groups are located in both benzene rings of anthraquinone?

a. Litholytic

b. Diuretic

c. Choleric

d. Sedative

e. Laxative

2655. What effect will anthracene derivatives have, if -OH- groups are located in both benzene rings of anthraquinone?

a. Sedative

b. Litholytic

c. Choleric

d. Diuretic

e. Laxative

2656. What factor enables the extraction of maximum amount of alkaloids from the herbal raw material?

a. Certain value of the solution pH

b. Slight heating

c. Intense heating

d. Preliminary processing of raw materials for their saturation with 96% alcohol

e. Herbal raw material should be fresh

2657. What factor enables the extraction of maximum amount of alkaloids from the herbal raw material?

a. Herbal raw material should be fresh

b. Certain value of the solution pH

c. Intense heating

d. Preliminary processing of raw materials for their saturation with 96% alcohol

e. Slight heating

2658. What factor enables the extraction of maximum amount of alkaloids from the herbal raw material?

a. Slight heating

b. Preliminary processing of raw materials for their saturation with 96% alcohol

c. Certain value of the solution pH

d. Intense heating

e. Herbal raw material should be fresh

2659. What fatty oil can be used as a substitute for olive oil, when making injectable solutions?

a. Oleum Cucurbitae

b. Oleum Ricini

c. Oleum Maydis

d. Oleum Lini

e. Oleum Amygdalarum

2660. What fatty oil can be used as a substitute for olive oil, when making injectable solutions?

a. Oleum Lini

b. Oleum Cucurbitae

c. Oleum Amygdalarum

d. Oleum Ricini

e. Oleum Maydis

2661. What fatty oil can be used as a substitute for olive oil, when making injectable solutions?

a. Oleum Lini

- b. Oleum Cucurbitae
- c. Oleum Maydis

d. Oleum Amygdalarum

- e. Oleum Ricini

2662. What fatty oil is nondrying due to its oleic acid glyceride content?

a. Ricini oleum

- b. Helianthi oleum

- c. Maydis oleum

- d. Lini oleum

- e. Cucurbitae oleum

2663. What fatty oil is nondrying due to its oleic acid glyceride content?

- a. Helianthi oleum

- b. Lini oleum

c. Ricini oleum

- d. Maydis oleum

- e. Cucurbitae oleum

2664. What fatty oil is nondrying due to its oleic acid glyceride content?

- a. Helianthi oleum

- b. Maydis oleum

c. Ricini oleum

- d. Cucurbitae oleum

- e. Lini oleum

2665. What fatty oil should be used to make an ointment with reparative properties?

- a. Oleum Cacao

b. Oleum Lini

- c. Oleum Persicorum

- d. Oleum Cucurbitae

- e. Oleum Jecoris

2666. What fatty oil should be used to make an ointment with reparative properties?

- a. Oleum Jecoris

b. Oleum Lini

- c. Oleum Persicorum

- d. Oleum Cucurbitae

- e. Oleum Cacao

2667. What fatty oil should be used to make an ointment with reparative properties?

- a. Oleum Persicorum

- b. Oleum Cacao

- c. Oleum Jecoris

d. Oleum Lini

- e. Oleum Cucurbitae

2668. What final document is used for the preparation of the report on the discrepancies revealed in the course of inventory at the pharmacy?

a. Act on the inventory results

- b. Invoice

- c. Commercial report

- d. Inventory item description

- e. Checklist

2669. What final document is used for the preparation of the report on the discrepancies revealed in the course of inventory at the pharmacy?

- a. Commercial report

- b. Inventory item description

- c. Checklist

d. Act on the inventory results

- e. Invoice

2670. What final document is used for the preparation of the report on the discrepancies revealed in

the course of inventory at the pharmacy?

- a. Invoice
- b. Inventory item description

c. Act on the inventory results

- d. Checklist
- e. Commercial report

2671. What five-membered heterocycle is the basis of the structural formula of antiprotozoal and antibacterial drug metronidazole?

a. Imidazole

- b. Thiazole
- c. Furan
- d. Pyrrole
- e. Pyrazole

2672. What five-membered heterocycle is the basis of the structural formula of antiprotozoal and antibacterial drug metronidazole?

- a. Furan
- b. Pyrrole

c. Imidazole

- d. Thiazole
- e. Pyrazole

2673. What five-membered heterocycle is the basis of the structural formula of antiprotozoal and antibacterial drug metronidazole?

a. Thiazole

b. Imidazole

- c. Furan
- d. Pyrazole
- e. Pyrrole

2674. What group of antibacterial agents is used as first-line drugs in treatment of uncomplicated community-acquired pneumonia in young people?

a. Semisynthetic penicillins

- b. Aminoglycosides
- c. Nitrofurans
- d. Oxyquinolines
- e. Tetracyclines

2675. What group of antibacterial agents is used as first-line drugs in treatment of uncomplicated community-acquired pneumonia in young people?

- a. Oxyquinolines
- b. Aminoglycosides
- c. Tetracyclines
- d. Nitrofurans

e. Semisynthetic penicillins

2676. What group of antibacterial agents is used as first-line drugs in treatment of uncomplicated community-acquired pneumonia in young people?

- a. Tetracyclines
- b. Aminoglycosides
- c. Oxyquinolines

d. Semisynthetic penicillins

e. Nitrofurans

2677. What group of antibiotics should be prescribed to treat chlamydial infection?

a. Macrolides

- b. Carbapenems
- c. Penicillins
- d. Aminoglycosides
- e. Cephalosprins

2678. What group of antibiotics should be prescribed to treat chlamydial infection?

- a. Cephalosprins
- b. Aminoglycosides

c. Macrolides

- d. Carbapenems
- e. Penicillins

2679. What group of antibiotics should be prescribed to treat chlamydial infection?

- a. Cephalosprins
- b. Penicillins
- c. Carbapenems
- d. Aminoglycosides

e. Macrolides

2680. What group of drugs can be characterized by a side effect, where the color perception of surrounding objects is distorted, making everything yellow-green tinted?

- a. Antibiotics
- b. Mucolytics

c. Cardiac glycosides

- d. Inhaled glucocorticoids
- e. Nonsteroidal anti-inflammatory drugs

2681. What group of drugs can be characterized by a side effect, where the color perception of surrounding objects is distorted, making everything yellow-green tinted?

- a. Inhaled glucocorticoids
- b. Antibiotics
- c. Nonsteroidal anti-inflammatory drugs

d. Cardiac glycosides

- e. Mucolytics

2682. What group of drugs can be characterized by a side effect, where the color perception of surrounding objects is distorted, making everything yellow-green tinted?

- a. Mucolytics
- b. Antibiotics
- c. Inhaled glucocorticoids
- d. Nonsteroidal anti-inflammatory drugs

e. Cardiac glycosides

2683. What group of ointment bases vaseline (petroleum jelly) belongs to?

- a. Hydrophilic bases
- b. Silicone bases

c. Hydrophobic bases

- d. Adsorption bases
- e. Diphylic (amphiphilic) emulsion bases

2684. What group of ointment bases vaseline (petroleum jelly) belongs to?

- a. Silicone bases
- b. Adsorption bases
- c. Diphylic (amphiphilic) emulsion bases
- d. Hydrophilic bases

e. Hydrophobic bases

2685. What group of ointment bases vaseline (petroleum jelly) belongs to?

- a. Silicone bases
- b. Diphylic (amphiphilic) emulsion bases
- c. Adsorption bases
- d. Hydrophilic bases

e. Hydrophobic bases

2686. What herbal drug produced from alkaloid-containing raw materials can be recommended for neurasthenia, insomnia, menopausal disorders?

- a. Glauicine hydrochloride
- b. Ergotamine

c. Novopassit

- d. Securinine nitrate
- e. Vinblastine

2687. What herbal drug produced from alkaloid-containing raw materials can be recommended for neurasthenia, insomnia, menopausal disorders?

- a. Glaucine hydrochloride
- b. Securinine nitrate
- c. Ergotamine

d. Novopassit

- e. Vinblastine

2688. What herbal drug produced from alkaloid-containing raw materials can be recommended for neurasthenia, insomnia, menopausal disorders?

- a. Securinine nitrate
- b. Ergotamine

c. Novopassit

- d. Vinblastine

- e. Glaucine hydrochloride

2689. What herbal raw material contains alkaloid glaucine that has a strong antitussive effect?

- a. Belladonna grass
- b. Vinca minor grass
- c. Chelidonium grass

d. Glaucium flavum grass

- e. Macleaya grass

2690. What herbal raw material contains alkaloid glaucine that has a strong antitussive effect?

- a. Chelidonium grass
- b. Belladonna grass
- c. Vinca minor grass
- d. Macleaya grass

e. Glaucium flavum grass

2691. What herbal raw material contains alkaloid glaucine that has a strong antitussive effect?

- a. Macleaya grass
- b. Belladonna grass
- c. Vinca minor grass

d. Glaucium flavum grass

- e. Chelidonium grass

2692. What herbal raw material is used as an industrial source of tannins?

- a. Nettle leaves

b. Cotinus coggygria leaves

- c. Solidago canadensis grass
- d. Persicaria hydropiper grass
- e. Rose hips

2693. What herbal raw material is used as an industrial source of tannins?

- a. Persicaria hydropiper grass
- b. Nettle leaves
- c. Rose hips

d. Cotinus coggygria leaves

- e. Solidago canadensis grass

2694. What herbal raw material is used as an industrial source of tannins?

- a. Rose hips
- b. Persicaria hydropiper grass
- c. Nettle leaves

d. Cotinus coggygria leaves

- e. Solidago canadensis grass

2695. What herbal raw material is used for the industrial production of Quercetin medicine?

a. Fructus Sophorae japonicae

- b. Fructus Hippophaes rhamnoides

- c. Herba Polygonii avicularis
- d. Herba Violae tricoloris
- e. Flores Helichrysi arenarii

2696. What herbal raw material is used for the industrial production of Quercetin medicine?

- a. Fructus Hippophaes rhamnoides
- b. Herba Violae tricoloris
- c. Flores Helichrysi arenarii
- d. Herba Polygonii avicularis

e. Fructus Sophorae japonicae

2697. What herbal raw material is used for the industrial production of Quercetin medicine?

- a. Herba Polygonii avicularis
- b. Flores Helichrysi arenarii
- c. Fructus Hippophaes rhamnoides
- d. Herba Violae tricoloris

e. Fructus Sophorae japonicae

2698. What hypotensive drug is an agent of choice for the patients suffering from arterial hypertension with concomitant type I diabetes mellitus?

a. Lisinopril

- b. Atenolol
- c. Labetalol
- d. Carvedilol
- e. Hydrochlorothiazide

2699. What hypotensive drug is an agent of choice for the patients suffering from arterial hypertension with concomitant type I diabetes mellitus?

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- b. Labetalol
- c. Hydrochlorothiazide
- d. Atenolol
- e. Carvedilol

2701. What imidazole derivative affects anaerobic microorganisms and protozoa and is effective against mixed infections?

- a. Asparcam (Potassium aspartate and magnesium aspartate)
- b. Caffeine
- c. Camphor
- d. Dibazol (Bendazol)

e. Metronidazole

2702. What imidazole derivative affects anaerobic microorganisms and protozoa and is effective against mixed infections?

- a. Asparcam (Potassium aspartate and magnesium aspartate)
- b. Camphor
- c. Dibazol (Bendazol)
- d. Caffeine

e. Metronidazole

2703. What imidazole derivative affects anaerobic microorganisms and protozoa and is effective against mixed infections?

- a. Camphor
- b. Caffeine

c. Metronidazole

- d. Asparcam (Potassium aspartate and magnesium aspartate)
- e. Dibazol (Bendazol)

2704. What indicator is used in iodometry for quantitative determination of caffeine in caffeine and sodium benzoate?

- a. Bromthymol blue
- b. Methyl orange
- c. Potassium chromate

d. Starch

- e. Eriochrome black

2705. What indicator is used in iodometry for quantitative determination of caffeine in caffeine and sodium benzoate?

- a. Eriochrome black
- b. Methyl orange
- c. Bromthymol blue

d. Starch

- e. Potassium chromate

2706. What indicator is used in iodometry for quantitative determination of caffeine in caffeine and sodium benzoate?

- a. Methyl orange
- b. Potassium chromate

c. Starch

- d. Eriochrome black

- e. Bromthymol blue

2707. What indicator of the pharmacy's financial performance is determined by the volume of sales, where the income from sales is equal to the expenses of the pharmacy?

a. Breakeven point

- b. Goods turnover
- c. Markup level
- d. Profit
- e. Profitability

2708. What indicator of the pharmacy's financial performance is determined by the volume of sales, where the income from sales is equal to the expenses of the pharmacy?

a. Breakeven point

- b. Profitability
- c. Markup level
- d. Profit
- e. Goods turnover

2709. What indicator of the pharmacy's financial performance is determined by the volume of sales, where the income from sales is equal to the expenses of the pharmacy?

- a. Markup level
- b. Goods turnover

c. Breakeven point

- d. Profit
- e. Profitability

2710. What is an effective way of preserving the stability of the medicinal substances that are thermolabile and have low stability?

a. Lyophilization

- b. Ultraviolet radiation
- c. Hydrolysis
- d. Boiling
- e. Filtration

2711. What is an effective way of preserving the stability of the medicinal substances that are thermolabile and have low stability?

- a. Hydrolysis

b. Lyophilization

- c. Ultraviolet radiation
- d. Boiling
- e. Filtration

2712. What is an effective way of preserving the stability of the medicinal substances that are thermolabile and have low stability?

- a. Ultraviolet radiation
- b. Filtration
- c. Lyophilization**

- d. Boiling
- e. Hydrolysis

2713. What is present in the structure of procaine hydrochloride, making its alkalimetric titration possible?

- a. Ester bond

b. Bound hydrochloric acid

- c. Unsubstituted aromatic cycle
- d. Residue of n-aminobenzoic acid
- e. Diethylamino group

2714. What is present in the structure of procaine hydrochloride, making its alkalimetric titration possible?

- a. Ester bond
- b. Diethylamino group
- c. Residue of n-aminobenzoic acid

d. Bound hydrochloric acid

- e. Unsubstituted aromatic cycle

2715. What is present in the structure of procaine hydrochloride, making its alkalimetric titration possible?

- a. Residue of n-aminobenzoic acid
- b. Diethylamino group
- c. Unsubstituted aromatic cycle

d. Bound hydrochloric acid

- e. Ester bond

2716. What is the amount of the value added tax (VAT) on the medical products sold by a pharmacy.

a. 7%

- b. 25%
- c. 5%
- d. 10%
- e. 15%

2717. What is the amount of the value added tax (VAT) on the medical products sold by a pharmacy.

- a. 15%
- b. 5%

c. 7%

- d. 25%
- e. 10%

2718. What is the amount of the value added tax (VAT) on the medical products sold by a pharmacy.

- a. 25%

b. 7%

- c. 15%
- d. 5%
- e. 10%

2719. What is the driving force of the diffusion process during the extraction of a herbal raw material?

a. Different concentration of the active substance in the raw material and extractant

- b. Brownian motion of the particles
- c. Presence of a film membrane
- d. High temperature of the extractant
- e. High polarity of the extractant

2720. What is the driving force of the diffusion process during the extraction of a herbal raw material?

- a. Brownian motion of the particles
- b. High temperature of the extractant
- c. High polarity of the extractant
- d. Different concentration of the active substance in the raw material and extractant**
- e. Presence of a film membrane

2721. What is the driving force of the diffusion process during the extraction of a herbal raw material?

- a. Presence of a film membrane
- b. Different concentration of the active substance in the raw material and extractant**
- c. High polarity of the extractant
- d. Brownian motion of the particles
- e. High temperature of the extractant

2722. What is the duration of the leave due to pregnancy and childbirth?

- a. 126 calendar days**
- b. 56 calendar days
- c. 59 working days
- d. 70 working days
- e. 90 calendar days

2723. What is the duration of the leave due to pregnancy and childbirth?

- a. 126 calendar days**
- b. 59 working days
- c. 70 working days
- d. 56 calendar days
- e. 90 calendar days

2724. What is the duration of the leave due to pregnancy and childbirth?

- a. 90 calendar days
- b. 126 calendar days**
- c. 70 working days
- d. 56 calendar days
- e. 59 working days

2725. What is the function of anhydrous lanolin in the suppository mass used for suppositories prepared via hand rolling?

- a. Preservative
- b. Solubilizer
- c. Solvent
- d. Emollient
- e. Plasticizer**

2726. What is the function of anhydrous lanolin in the suppository mass used for suppositories prepared via hand rolling?

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- b. Emollient
- c. Preservative
- d. Plasticizer**
- e. Solvent

2727. What is the function of anhydrous lanolin in the suppository mass used for suppositories prepared via hand rolling?

- a. Solvent
- b. Plasticizer**
- c. Emollient
- d. Solubilizer
- e. Preservative

2728. What is the fundamental difference of the Japanese management model?

- a. Collectivism**
- b. Strict control procedure
- c. Individualism

- d. Strictly formalized management system
- e. Focus on individual results

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- a. Individualism
- b. Strictly formalized management system
- c. Focus on individual results

d. Collectivism

- e. Strict control procedure

2730. What is the fundamental difference of the Japanese management model?

- a. Strict control procedure

b. Collectivism

- c. Individualism
- d. Strictly formalized management system
- e. Focus on individual results

2731. What is the mandatory component of medical product advertising for end users, according to the law of Ukraine "On Advertising"?

a. Warning that self-medication can be harmful to health

- b. Naming and mentioning celebrities, movie and cartoon characters, competent authorities
- c. References to the cases of successful drug use
- d. Comparison with other medical products
- e. Reference to the drug as the most effective

2732. What is the mandatory component of medical product advertising for end users, according to the law of Ukraine "On Advertising"?

- a. Reference to the drug as the most effective
- b. Naming and mentioning celebrities, movie and cartoon characters, competent authorities

c. Warning that self-medication can be harmful to health

- d. Comparison with other medical products
- e. References to the cases of successful drug use

2733. What is the mandatory component of medical product advertising for end users, according to the law of Ukraine "On Advertising"?

- a. References to the cases of successful drug use
- b. Comparison with other medical products
- c. Reference to the drug as the most effective

d. Warning that self-medication can be harmful to health

- e. Naming and mentioning celebrities, movie and cartoon characters, competent authorities

2734. What is the medicine of choice for treatment of acute pyelonephritis in a woman, who is at the I trimester of her pregnancy?

a. Amoxicillin

- b. Ofloxacin
- c. Co-trimoxazole
- d. Gentamicin
- e. Norfloxacin

2735. What is the medicine of choice for treatment of acute pyelonephritis in a woman, who is at the I trimester of her pregnancy?

- a. Co-trimoxazole
- b. Gentamicin

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- d. Norfloxacin
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2736. What is the medicine of choice for treatment of acute pyelonephritis in a woman, who is at the I trimester of her pregnancy?

- a. Co-trimoxazole
- b. Gentamicin
- c. Ofloxacin

d. Amoxicillin

e. Norfloxacin

2737. What is the minimum amount of boric acid that can be weighed on the BP-1 hand scales?

- a. 0.04 g
- b. 0.02 g**
- c. 0.03 g
- d. 0.01 g
- e. 0.05 g

2738. What is the minimum amount of boric acid that can be weighed on the BP-1 hand scales?

- a. 0.05 g
- b. 0.01 g
- c. 0.03 g
- d. 0.04 g
- e. 0.02 g**

2739. What is the minimum amount of boric acid that can be weighed on the BP-1 hand scales?

- a. 0.05 g
- b. 0.03 g
- c. 0.01 g
- d. 0.02 g**
- e. 0.04 g

2740. What is the minimum permissible total area of a pharmaceutical sales point, according to the current Licensing Requirements?

- a. No less than 18 m²**
- b. No less than 250 m²
- c. No less than 50 m²
- d. No less than 30 m²
- e. No less than 40 m²

2741. What is the minimum permissible total area of a pharmaceutical sales point, according to the current Licensing Requirements?

- a. No less than 18 m²**
- b. No less than 30 m²
- c. No less than 40 m²
- d. No less than 50 m²
- e. No less than 250 m²

2742. What is the minimum permissible total area of a pharmaceutical sales point, according to the current Licensing Requirements?

- a. No less than 250 m²
- b. No less than 30 m²
- c. No less than 18 m²**
- d. No less than 50 m²
- e. No less than 40 m²

2743. What is the name of the ability to restore the properties of a heterogenous system by perturbation?

- a. Dispersion
- b. Granulation
- c. Emulsification
- d. Extraction
- e. Resuspension**

2744. What is the name of the ability to restore the properties of a heterogenous system by perturbation?

- a. Dispersion
- b. Granulation
- c. Extraction
- d. Resuspension**
- e. Emulsification

2745. What is the name of the settlement document printed by the registrar of settlement operations,

when making settlements for the goods sold or services provided?

- a. Invoice
- b. Sales receipt
- c. Settlement receipt
- d. Cash register fiscal receipt**

e. Receipt

2746. What is the name of the settlement document printed by the registrar of settlement operations, when making settlements for the goods sold or services provided?

- a. Receipt
- b. Sales receipt
- c. Invoice
- d. Settlement receipt

e. Cash register fiscal receipt

2747. What is the name of the settlement document printed by the registrar of settlement operations, when making settlements for the goods sold or services provided?

- a. Settlement receipt
- b. Sales receipt
- c. Invoice
- d. Receipt

e. Cash register fiscal receipt

2748. What is the purpose of bulking agents in production of tablets?

- a. To improve adhesion of particles to each other
- b. To improve granulate flowability
- c. To improve the taste

d. To obtain tablets of a certain mass

e. To improve tablet breakup

2749. What is the purpose of bulking agents in production of tablets?

- a. To improve tablet breakup
- b. To obtain tablets of a certain mass**
- c. To improve granulate flowability
- d. To improve adhesion of particles to each other
- e. To improve the taste

2750. What is the purpose of bulking agents in production of tablets?

- a. To improve tablet breakup
- b. To improve granulate flowability
- c. To obtain tablets of a certain mass**
- d. To improve the taste
- e. To improve adhesion of particles to each other

2751. What is the purpose of injectable tablets?

- a. Obtaining injectable solutions**
- b. Sublingual use
- c. Implantation
- d. Obtaining solutions for various pharmaceutical purposes
- e. Oral use

2752. What is the purpose of injectable tablets?

- a. Implantation
- b. Sublingual use
- c. Oral use
- d. Obtaining injectable solutions**
- e. Obtaining solutions for various pharmaceutical purposes

2753. What is the purpose of injectable tablets?

- a. Obtaining solutions for various pharmaceutical purposes
- b. Obtaining injectable solutions**
- c. Oral use
- d. Sublingual use

e. Implantation

2754. What is the rational method of introducing magnesium oxide into an oil emulsion?

a. Introduction as a suspension into the prepared emulsion

b. Dissolution in oil

c. Dissolution in the prepared emulsion

d. Dissolution in water to prepare the primary emulsion

e. Comminution with the water intended for the dilution of the primary emulsion

2755. What is the rational method of introducing magnesium oxide into an oil emulsion?

a. Introduction as a suspension into the prepared emulsion

b. Dissolution in the prepared emulsion

c. Dissolution in water to prepare the primary emulsion

d. Comminution with the water intended for the dilution of the primary emulsion

e. Dissolution in oil

2756. What is the rational method of introducing magnesium oxide into an oil emulsion?

a. Introduction as a suspension into the prepared emulsion

b. Dissolution in the prepared emulsion

c. Dissolution in water to prepare the primary emulsion

d. Dissolution in oil

e. Comminution with the water intended for the dilution of the primary emulsion

2757. What is the shortest goods distribution channel for medical products?

a. One-level

b. Zero-level

c. Four-level

d. Two-level

e. Three-level

2758. What is the shortest goods distribution channel for medical products?

a. Two-level

b. One-level

c. Zero-level

d. Three-level

e. Four-level

2759. What is the shortest goods distribution channel for medical products?

a. Two-level

b. One-level

c. Three-level

d. Zero-level

e. Four-level

2760. What lubricants are used in tablet manufacturing?

a. Starch paste

b. Calcium stearate, stearic acid

c. Solutions of high-molecular compounds

d. Water, ethanol

e. Tween 80, Aerosil

2761. What lubricants are used in tablet manufacturing?

a. Starch paste

b. Calcium stearate, stearic acid

c. Tween 80, Aerosil

d. Water, ethanol

e. Solutions of high-molecular compounds

2762. What lubricants are used in tablet manufacturing?

a. Starch paste

b. Calcium stearate, stearic acid

c. Water, ethanol

d. Solutions of high-molecular compounds

e. Tween 80, Aerosil

2763. What means of demand stimulation can be applied by pharmacy management among its employees?

a. -

b. Bonuses

c. In-store advertising

d. Layout of medical products in shop-windows and on shelves

e. Coupons

2764. What means of demand stimulation can be applied by pharmacy management among its employees?

a. Coupons

b. -

c. In-store advertising

d. Layout of medical products in shop-windows and on shelves

e. Bonuses

2765. What means of demand stimulation can be applied by pharmacy management among its employees?

a. Coupons

b. In-store advertising

c. -

d. Layout of medical products in shop-windows and on shelves

e. Bonuses

2766. What medicinal agents must be manufactured in aseptic conditions followed by thermal sterilization with high-pressure saturated steam?

a. 2% collargol solution for infants

b. Liquid ingestible antibiotics

c. Injection solutions with thermolabile substances

d. Concentrated solutions for burette systems

e. Injection solutions with thermostable substances

2767. What medicinal agents must be manufactured in aseptic conditions followed by thermal sterilization with high-pressure saturated steam?

a. Injection solutions with thermolabile substances

b. Liquid ingestible antibiotics

c. Injection solutions with thermostable substances

d. Concentrated solutions for burette systems

e. 2% collargol solution for infants

2768. What medicinal agents must be manufactured in aseptic conditions followed by thermal sterilization with high-pressure saturated steam?

a. Injection solutions with thermolabile substances

b. Liquid ingestible antibiotics

c. Concentrated solutions for burette systems

d. 2% collargol solution for infants

e. Injection solutions with thermostable substances

2769. What medicinal plant has anti-inflammatory and expectorant properties due to its content of triterpene saponins?

a. Orthosiphon stamineus

b. Aralia mandshurica

c. Glycyrrhiza glabra

d. Panax ginseng

e. Astragalus dasyanthus

2770. What medicinal plant has anti-inflammatory and expectorant properties due to its content of triterpene saponins?

a. Panax ginseng

b. Glycyrrhiza glabra

c. Astragalus dasyanthus

d. Orthosiphon stamineus

e. *Aralia mandshurica*

2771. What medicinal plant has anti-inflammatory and expectorant properties due to its content of triterpene saponins?

- a. *Panax ginseng*
- b. *Orthosiphon stamineus*
- c. *Astragalus dasyanthus*
- d. *Aralia mandshurica*

e. ***Glycyrrhiza glabra***

2772. What medicinal substance can be identified using hydroxamic test?

a. **Aceclidine**

- b. Metronidazole
- c. Nitroxoline
- d. Bendazol
- e. Nicotinic acid

2773. What medicinal substance can be identified using hydroxamic test?

a. Bendazol

b. **Aceclidine**

- c. Nicotinic acid
- d. Nitroxoline
- e. Metronidazole

2774. What medicinal substance can be mixed with the powder mass without an additional comminution?

- a. Menthol
- b. Camphor

c. **Starch**

- d. Streptocide (Sulfanilamide)
- e. Salicylic acid

2775. What medicinal substance can be mixed with the powder mass without an additional comminution?

- a. Menthol
- b. Salicylic acid
- c. Camphor

d. **Starch**

e. Streptocide (Sulfanilamide)

2776. What medicinal substance can be mixed with the powder mass without an additional comminution?

a. Streptocide (Sulfanilamide)

b. **Starch**

- c. Camphor
- d. Menthol
- e. Salicylic acid

2777. What medicinal substance during interaction with a silver nitrate solution forms a white precipitate that quickly colors yellowish and then turns black?

a. **Sodium thiosulfate**

- b. Sodium bromide
- c. Hydrogen peroxide
- d. Sodium chloride
- e. Sodium iodide

2778. What medicinal substance during interaction with a silver nitrate solution forms a white precipitate that quickly colors yellowish and then turns black?

a. **Sodium thiosulfate**

- b. Sodium iodide
- c. Sodium bromide
- d. Sodium chloride
- e. Hydrogen peroxide

2779. What medicinal substance during interaction with a silver nitrate solution forms a white precipitate that quickly colors yellowish and then turns black?

- a. Sodium bromide
- b. Sodium iodide
- c. Hydrogen peroxide
- d. Sodium chloride

e. Sodium thiosulfate

2780. What medicinal substance has an imidazole fragment in its structure?

a. Pilocarpine hydrochloride

- b. Nitrofurantoin
- c. Phenazone
- d. Nicotinic acid
- e. Thiamine bromide

2781. What medicinal substance has an imidazole fragment in its structure?

- a. Nitrofurantoin
- b. Phenazone
- c. Nicotinic acid
- d. Thiamine bromide

e. Pilocarpine hydrochloride

2782. What medicinal substance has an imidazole fragment in its structure?

- a. Phenazone
- b. Thiamine bromide

c. Pilocarpine hydrochloride

- d. Nicotinic acid
- e. Nitrofurantoin

2783. What medicinal substance has benzimidazole in its structure?

- a. Diphenhydramine hydrochloride (Dimedrol)
- b. Mercaptopurine (Thiamazole)
- c. Nitrofurantoin (Furacilin)

d. Dibazol (Bendazol)

- e. Metamizole sodium salt (Analgin)

2784. What medicinal substance has benzimidazole in its structure?

- a. Diphenhydramine hydrochloride (Dimedrol)
- b. Nitrofurantoin (Furacilin)

c. Dibazol (Bendazol)

- d. Metamizole sodium salt (Analgin)
- e. Mercaptopurine (Thiamazole)

2785. What medicinal substance has benzimidazole in its structure?

- a. Metamizole sodium salt (Analgin)

b. Dibazol (Bendazol)

- c. Mercaptopurine (Thiamazole)
- d. Nitrofurantoin (Furacilin)
- e. Diphenhydramine hydrochloride (Dimedrol)

2786. What medicinal substance is a derivative of morphinan?

a. Codeine

- b. Caffeine
- c. Cocaine hydrochloride
- d. Pachycarpine hydroiodide
- e. Quinine sulfate

2787. What medicinal substance is a derivative of morphinan?

a. Codeine

- b. Caffeine
- c. Pachycarpine hydroiodide
- d. Cocaine hydrochloride
- e. Quinine sulfate

2788. What medicinal substance is a derivative of morphinan?

- a. Codeine
- b. Caffeine
- c. Quinine sulfate
- d. Cocaine hydrochloride
- e. Pachycarpine hydroiodide

2789. What medicinal substance must fill only 2/3 of the vial before sterilization?

- a. Sodium bicarbonate
- b. Calcium chloride
- c. Hexamethylenetetramine
- d. Euphyllin (Aminophylline)
- e. Sodium chloride

2790. What medicinal substance must fill only 2/3 of the vial before sterilization?

- a. Calcium chloride
- b. Hexamethylenetetramine
- c. Sodium bicarbonate
- d. Sodium chloride
- e. Euphyllin (Aminophylline)

2791. What medicinal substance must fill only 2/3 of the vial before sterilization?

- a. Euphyllin (Aminophylline)
- b. Sodium chloride
- c. Sodium bicarbonate
- d. Hexamethylenetetramine
- e. Calcium chloride

2792. What medicine is recommended to reduce the risk of gastrointestinal bleeding during a long-term treatment with an acetylsalicylic acid-based antiaggregant?

- a. Ceftriaxone
- b. Spironolactone
- c. Omeprazole
- d. Metamizole sodium
- e. Prednisolone

2793. What medicine is recommended to reduce the risk of gastrointestinal bleeding during a long-term treatment with an acetylsalicylic acid-based antiaggregant?

- a. Prednisolone
- b. Ceftriaxone
- c. Spironolactone
- d. Omeprazole
- e. Metamizole sodium

2794. What medicine is recommended to reduce the risk of gastrointestinal bleeding during a long-term treatment with an acetylsalicylic acid-based antiaggregant?

- a. Spironolactone
- b. Omeprazole
- c. Metamizole sodium
- d. Ceftriaxone
- e. Prednisolone

2795. What medicine is simultaneously a mucolytic and an antidote against a paracetamol overdose?

- a. Bromhexine
- b. Acetylcysteine
- c. Ambroxol
- d. Carbocysteine
- e. Trypsin

2796. What medicine is simultaneously a mucolytic and an antidote against a paracetamol overdose?

- a. Carbocysteine
- b. Ambroxol
- c. Bromhexine

d. Trypsin

e. Acetylcysteine

2797. What medicine is simultaneously a mucolytic and an antidote against a paracetamol overdose?

a. Carbocysteine

b. Ambroxol

c. Trypsin

d. Bromhexine

e. Acetylcysteine

2798. What medicine is used for anesthesia and cannot be prescribed to outpatients, according to Decree №360?

a. Sodium thiopental

b. Suprastin (Chloropyramine)

c. Anaesthesin (Benzocaine)

d. Metoprolol

e. Midecamycin

2799. What medicine is used for anesthesia and cannot be prescribed to outpatients, according to Decree №360?

a. Anaesthesin (Benzocaine)

b. Metoprolol

c. Sodium thiopental

d. Suprastin (Chloropyramine)

e. Midecamycin

2800. What medicine is used for anesthesia and cannot be prescribed to outpatients, according to Decree №360?

a. Metoprolol

b. Sodium thiopental

c. Suprastin (Chloropyramine)

d. Anaesthesin (Benzocaine)

e. Midecamycin

2801. What medicine is used for the symptomatic treatment of meteorism?

a. Simethicone

b. Papaverine

c. Drotaverine

d. Almagel (Algeldrate + magnesium hydroxide)

e. Platyphyllin

2802. What medicine is used for the symptomatic treatment of meteorism?

a. Almagel (Algeldrate + magnesium hydroxide)

b. Simethicone

c. Platyphyllin

d. Papaverine

e. Drotaverine

2803. What medicine is used for the symptomatic treatment of meteorism?

a. Platyphyllin

b. Papaverine

c. Simethicone

d. Drotaverine

e. Almagel (Algeldrate + magnesium hydroxide)

2804. What medicine obtained from ergot is used in gynecology and has a hemostatic effect?

a. Ergotamine hydrotartrate

b. Digitoxin

c. Vincaton

d. Galantamine hydrobromide

e. Vinblastine

2805. What medicine obtained from ergot is used in gynecology and has a hemostatic effect?

a. Vinblastine

- b. Digitoxin
- c. Vincaton
- d. Galantamine hydrobromide

e. Ergotamine hydrotartrate

2806. What medicine obtained from ergot is used in gynecology and has a hemostatic effect?

- a. Vinblastine
- b. Vincaton
- c. Digitoxin

d. Ergotamine hydrotartrate

e. Galantamine hydrobromide

2807. What medicine would be most advisable for symptomatic treatment of constipation in pregnant women?

- a. Bisacodyl
- b. Macrogol

c. Lactulose

- d. Ononis herbal medicine
- e. Senadexine (sennosides A and B)

2808. What medicine would be most advisable for symptomatic treatment of constipation in pregnant women?

- a. Senadexine (sennosides A and B)
- b. Bisacodyl
- c. Ononis herbal medicine
- d. Macrogol

e. Lactulose

2809. What medicine would be most advisable for symptomatic treatment of constipation in pregnant women?

- a. Senadexine (sennosides A and B)
- b. Ononis herbal medicine

c. Lactulose

- d. Bisacodyl
- e. Macrogol

2810. What medicine would be the best choice for a pregnant woman with signs of acute respiratory viral disease, who needs to lower her body temperature?

a. Paracetamol

- b. Acetylsalicylic acid
- c. Indomethacin
- d. Nimesulide
- e. Diclofenac sodium

2811. What medicine would be the best choice for a pregnant woman with signs of acute respiratory viral disease, who needs to lower her body temperature?

- a. Acetylsalicylic acid
- b. Indomethacin
- c. Diclofenac sodium

d. Paracetamol

e. Nimesulide

2812. What medicine would be the best choice for a pregnant woman with signs of acute respiratory viral disease, who needs to lower her body temperature?

- a. Diclofenac sodium
- b. Acetylsalicylic acid

c. Paracetamol

- d. Nimesulide
- e. Indomethacin

2813. What medicines cannot be advertised in pharmacies and their structural units?

a. Prescription medicines

b. Cosmetics

- c. Disinfectants
- d. Over-the-counter medicines
- e. Dietary supplements

2814. What medicines cannot be advertised in pharmacies and their structural units?

a. Prescription medicines

- b. Disinfectants
- c. Over-the-counter medicines
- d. Cosmetics
- e. Dietary supplements

2815. What medicines cannot be advertised in pharmacies and their structural units?

- a. Over-the-counter medicines
- b. Disinfectants
- c. Dietary supplements

d. Prescription medicines

e. Cosmetics

2816. What medicines should be listed at the beginning of an extemporaneous drug formulation according to the regulations?

a. Narcotic substances

- b. Solutions
- c. All medicines are written in a random order
- d. Medicines included in the Essential Medicines List
- e. Substances that are hard to comminute

2817. What medicines should be listed at the beginning of an extemporaneous drug formulation according to the regulations?

a. All medicines are written in a random order

b. Narcotic substances

- c. Substances that are hard to comminute
- d. Medicines included in the Essential Medicines List
- e. Solutions

2818. What medicines should be listed at the beginning of an extemporaneous drug formulation according to the regulations?

- a. Solutions
- b. Medicines included in the Essential Medicines List

c. Narcotic substances

- d. Substances that are hard to comminute
- e. All medicines are written in a random order

2819. What method is recommended by the State Pharmacopoeia of Ukraine for quantitative determination of potassium chloride substance that is used in treatment of hypokalemia?

- a. Cerimetry
- b. Iodometry
- c. Bromatometry
- d. Polarimetry

e. Argentometry

2820. What method is recommended by the State Pharmacopoeia of Ukraine for quantitative determination of potassium chloride substance that is used in treatment of hypokalemia?

- a. Iodometry
- b. Bromatometry
- c. Cerimetry
- d. Polarimetry

e. Argentometry

2821. What method is recommended by the State Pharmacopoeia of Ukraine for quantitative determination of potassium chloride substance that is used in treatment of hypokalemia?

- a. Iodometry
- b. Polarimetry
- c. Cerimetry

d. Bromatometry

e. Argentometry

2822. What method is used to prepare a suspension with basic bismuth nitrate?

a. Dispersion with turbidization

b. Chemical condensation

c. Solvent substitution

d. Physical condensation

e. Continental method

2823. What method is used to prepare a suspension with basic bismuth nitrate?

a. Continental method

b. Chemical condensation

c. Dispersion with turbidization

d. Physical condensation

e. Solvent substitution

2824. What method is used to prepare a suspension with basic bismuth nitrate?

a. Physical condensation

b. Chemical condensation

c. Dispersion with turbidization

d. Solvent substitution

e. Continental method

2825. What method is used to sterilize the eye drops containing benzylpenicillin sodium salt?

a. Flowing steam

b. Not subject to sterilization

c. Hot air

d. Steam under pressure

e. Ultraviolet radiation

2826. What method is used to sterilize the eye drops containing benzylpenicillin sodium salt?

a. Hot air

b. Steam under pressure

c. Not subject to sterilization

d. Ultraviolet radiation

e. Flowing steam

2827. What method is used to sterilize the eye drops containing benzylpenicillin sodium salt?

a. Steam under pressure

b. Not subject to sterilization

c. Ultraviolet radiation

d. Hot air

e. Flowing steam

2828. What method of analysis takes into account the strengths and weaknesses of a pharmaceutical company, as well as opportunities and threats at the pharmaceutical market, in order to determine marketing goals, strategies, and specific measures that would make it possible to adapt the company's potential to market trends and conditions?

a. SWOT analysis

b. VEN analysis

c. ABC analysis

d. XYZ analysis

e. Meta-analysis

2829. What method of analysis takes into account the strengths and weaknesses of a pharmaceutical company, as well as opportunities and threats at the pharmaceutical market, in order to determine marketing goals, strategies, and specific measures that would make it possible to adapt the company's potential to market trends and conditions?

a. ABC analysis

b. Meta-analysis

c. VEN analysis

d. SWOT analysis

e. XYZ analysis

2830. What method of analysis takes into account the strengths and weaknesses of a pharmaceutical company, as well as opportunities and threats at the pharmaceutical market, in order to determine marketing goals, strategies, and specific measures that would make it possible to adapt the company's potential to market trends and conditions?

a. Meta-analysis

b. VEN analysis

c. SWOT analysis

d. XYZ analysis

e. ABC analysis

2831. What minimum amount of a toxic substance can be weighed on one-gram hand scales?

a. 0.02 g

b. 0.1 g

c. 0.05 g

d. 0.03 g

e. 0.04 g

2832. What minimum amount of a toxic substance can be weighed on one-gram hand scales?

a. 0.03 g

b. 0.02 g

c. 0.04 g

d. 0.1 g

e. 0.05 g

2833. What minimum amount of a toxic substance can be weighed on one-gram hand scales?

a. 0.03 g

b. 0.04 g

c. 0.05 g

d. 0.1 g

e. 0.02 g

2834. What mixing method is carried out by repeatedly pumping the liquid through the apparatus, using a pump or nozzles?

a. Acoustic

b. Circulation

c. Mechanical

d. Pneumatic

e. Ultrasonic

2835. What mixing method is carried out by repeatedly pumping the liquid through the apparatus, using a pump or nozzles?

a. Pneumatic

b. Mechanical

c. Ultrasonic

d. Circulation

e. Acoustic

2836. What mixing method is carried out by repeatedly pumping the liquid through the apparatus, using a pump or nozzles?

a. Pneumatic

b. Ultrasonic

c. Mechanical

d. Circulation

e. Acoustic

2837. What modern method is used to fill ampoules with injectable solutions?

a. Chamber filling

b. Vacuum filling

c. Ultrasonic filling

d. Syringe filling

e. Vortex filling

2838. What modern method is used to fill ampoules with injectable solutions?

- a. Vortex filling
- b. Syringe filling**
- c. Ultrasonic filling
- d. Vacuum filling
- e. Chamber filling

2839. What modern method is used to fill ampoules with injectable solutions?

- a. Vortex filling
- b. Ultrasonic filling
- c. Syringe filling**
- d. Chamber filling
- e. Vacuum filling

2840. What morphological feature is diagnostic for the *Matricaria chamomilla* herbal raw material?

- a. Conical, glabrous, and hollow receptacle**
- b. Spherical receptacle with membranous bracts
- c. Solid spherical receptacle
- d. Curved hemispherical receptacle with membranous bracts
- e. Solid hemispherical receptacle

2841. What morphological feature is diagnostic for the *Matricaria chamomilla* herbal raw material?

- a. Curved hemispherical receptacle with membranous bracts
- b. Solid spherical receptacle
- c. Spherical receptacle with membranous bracts
- d. Conical, glabrous, and hollow receptacle**
- e. Solid hemispherical receptacle

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- b. Solid spherical receptacle
- c. Spherical receptacle with membranous bracts
- d. Solid hemispherical receptacle
- e. Conical, glabrous, and hollow receptacle**

2843. What nonsteroidal anti-inflammatory drug is indicated for treatment of the patient's rheumatoid arthritis, if this patient has a history of peptic ulcer disease of the stomach?

- a. Celecoxib**
- b. Ibuprofen
- c. Indomethacin
- d. Acetylsalicylic acid
- e. Diclofenac sodium

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- a. Indomethacin
- b. Acetylsalicylic acid
- c. Ibuprofen
- d. Diclofenac sodium
- e. Celecoxib**

2846. What nonsteroidal anti-inflammatory drug is the most hematotoxic and can cause agranulocytosis?

- a. Ibuprofen
- b. Metamizole sodium**

- c. Acetylsalicylic acid
- d. Indomethacin
- e. Nimesulide

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- c. Nimesulide
- d. Indomethacin
- e. Acetylsalicylic acid

2848. What nonsteroidal anti-inflammatory drug is the most hematotoxic and can cause agranulocytosis?

- a. Nimesulide
- b. Ibuprofen
- c. Indomethacin
- d. Metamizole sodium**

- e. Acetylsalicylic acid

2849. What oral hypoglycemic agent should be prescribed for a 47-year-old overweight patient with type 2 diabetes mellitus, if diet therapy is ineffective?

- a. Metformin**
- b. Metoclopramide
- c. Meloxicam
- d. Metoprolol
- e. Metronidazole

2850. What oral hypoglycemic agent should be prescribed for a 47-year-old overweight patient with type 2 diabetes mellitus, if diet therapy is ineffective?

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- a. Metronidazole
- b. Metoprolol
- c. Metoclopramide
- d. Metformin**

- e. Meloxicam

2852. What packaging should the pharmacist use for a baby powder?

- a. Container with a lid that has holes in it**
- b. Parchment
- c. Ordinary paper capsules
- d. Gelatin capsules
- e. Wax paper

2853. What packaging should the pharmacist use for a baby powder?

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- b. Wax paper
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- a. Parchment
- b. Container with a lid that has holes in it**
- c. Gelatin capsules
- d. Ordinary paper capsules

e. Wax paper

2855. What parameter characterizes the ratio of the height of the powder in the matrix to the height of the obtained tablet?

a. Compaction (compression) coefficient

b. Porosity

c. Compression value

d. Bulk volume

e. Flowability

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a. Porosity

b. Compaction (compression) coefficient

c. Bulk volume

d. Flowability

e. Compression value

2858. What parameter is measured using a drum friability tester during tablet quality control?

a. Abrasion resistance

b. Disintegration

c. Impurities

d. Uniformity of dosage

e. Dissolution

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a. Impurities

b. Dissolution

c. Uniformity of dosage

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a. Uniformity of dosage

b. Dissolution

c. Disintegration

d. Abrasion resistance

e. Impurities

2861. What pathological condition can develop during a long-term treatment with prednisolone?

a. Gastrointestinal bleeding

b. Pyelonephritis

c. Salivation

d. Myocarditis

e. Pneumonia

2862. What pathological condition can develop during a long-term treatment with prednisolone?

a. Gastrointestinal bleeding

b. Salivation

c. Pneumonia

d. Myocarditis

e. Pyelonephritis

2863. What pathological condition can develop during a long-term treatment with prednisolone?

a. Myocarditis

b. Pneumonia

c. Pyelonephritis

d. Gastrointestinal bleeding

e. Salivation

2864. What pharmaceutical factor can affect therapeutic activity of active substances?

a. Drug dosing equipment

b. Material expenses of the manufacture

c. WHO directives

d. Adjuvants

e. Compliance with GMP regulations

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a. WHO directives

b. Drug dosing equipment

c. Adjuvants

d. Material expenses of the manufacture

e. Compliance with GMP regulations

2867. What pharmacological group of drugs textbfCANNOT be combined with expectorants?

a. Antitussive drugs

b. Antibacterial drugs

c. Mucolytic agents

d. Polyvitamins

e. Decongestants

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b. Antibacterial drugs

c. Antitussive drugs

d. Polyvitamins

e. Decongestants

2870. What pharmacotherapeutic characteristic of a medicine allows its classification as over-the-counter drug?

a. Medicine can cause no direct or indirect harm to the patient's health

b. Medicine contains substances that require additional research into their activity and side-effects

c. Medicine is available only for in-patient treatment

d. Medicine is available only by prescription

e. Medicine has entered the pharmaceutical market only recently and actual experience with its practical application is limited

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- c. Medicine is available only for in-patient treatment
- d. Medicine can cause no direct or indirect harm to the patient's health**
- e. Medicine is available only by prescription

2873. What pharmacy department carries out the individual production of extemporaneous medicines, their quality control, and their dispensing to consumers?

- a. Prescription and production**
- b. Stock of goods
- c. Over-the-counter sales
- d. Ready-made dosage forms
- e. Medical cosmetics

2874. What pharmacy department carries out the individual production of extemporaneous medicines, their quality control, and their dispensing to consumers?

- a. Ready-made dosage forms
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- c. Prescription and production**
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- b. Medical cosmetics
- c. Prescription and production**
- d. Ready-made dosage forms
- e. Over-the-counter sales

2876. What preparation has an antacid effect?

- a. Famotidine
- b. Pirenzepine
- c. Aluminum phosphate**
- d. Omeprazole
- e. Ranitidine

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- b. Ranitidine
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2878. What preparation has an antacid effect?

- a. Pirenzepine
- b. Aluminum phosphate**
- c. Omeprazole
- d. Ranitidine
- e. Famotidine

2879. What preparation has an antiemetic effect?

- a. Metoclopramide**
- b. Clarithromycin
- c. Aluminum phosphate
- d. Loperamide
- e. Sodium bicarbonate

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- a. Aluminum phosphate

b. Metoclopramide

- c. Loperamide
- d. Sodium bicarbonate
- e. Clarithromycin

2881. What preparation has an antiemetic effect?

- a. Sodium bicarbonate
- b. Aluminum phosphate
- c. Loperamide

d. Metoclopramide

- e. Clarithromycin

2882. What prescription form is used to prescribe psychotropic drugs in their pure form or in a mixture with indifferent substances for the dispensation free of charge or at a discount?

- a. Two copies of prescription form f-3

b. Two prescription forms f-1 and f-3

- c. Prescription form f-1
- d. Prescription form f-3
- e. Two copies of prescription form f-1

2883. What prescription form is used to prescribe psychotropic drugs in their pure form or in a mixture with indifferent substances for the dispensation free of charge or at a discount?

- a. Two copies of prescription form f-3

b. Two prescription forms f-1 and f-3

- c. Prescription form f-3
- d. Two copies of prescription form f-1
- e. Prescription form f-1

2884. What prescription form is used to prescribe psychotropic drugs in their pure form or in a mixture with indifferent substances for the dispensation free of charge or at a discount?

- a. Two copies of prescription form f-3
- b. Two copies of prescription form f-1
- c. Prescription form f-3
- d. Prescription form f-1

e. Two prescription forms f-1 and f-3

2885. What preservative did the pharmacist use to ensure the stability of eye drops?

a. Boric acid

- b. Polyvinyl alcohol
- c. Hydrochloric acid
- d. Methyl cellulose
- e. Sodium chloride

2886. What preservative did the pharmacist use to ensure the stability of eye drops?

- a. Methyl cellulose

b. Boric acid

- c. Sodium chloride
- d. Hydrochloric acid
- e. Polyvinyl alcohol

2887. What preservative did the pharmacist use to ensure the stability of eye drops?

- a. Polyvinyl alcohol

b. Boric acid

- c. Sodium chloride
- d. Methyl cellulose
- e. Hydrochloric acid

2888. What pricing policy is used by the management of a pharmacy, if during the price formation for pharmaceutical products the main focus is the prices offered by the nearest pharmacies, rather than pharmacy's own expenses or demand for the products?

a. Competition-based pricing

- b. Breakeven pricing
- c. Cost-based pricing

- d. Tender pricing
- e. Demand-based pricing

2889. What pricing policy is used by the management of a pharmacy, if during the price formation for pharmaceutical products the main focus is the prices offered by the nearest pharmacies, rather than pharmacy's own expenses or demand for the products?

- a. Demand-based pricing
- b. Breakeven pricing
- c. Competition-based pricing**

- d. Cost-based pricing
- e. Tender pricing

2890. What pricing policy is used by the management of a pharmacy, if during the price formation for pharmaceutical products the main focus is the prices offered by the nearest pharmacies, rather than pharmacy's own expenses or demand for the products?

- a. Tender pricing
- b. Demand-based pricing
- c. Breakeven pricing

d. Competition-based pricing

- e. Cost-based pricing

2891. What property of the tablet mass determines the most how fast a matrix hole of the tablet press machine is filled?

a. Fluidity (flowability)

- b. Relative density
- c. Humidity
- d. Porosity
- e. Bulk density

2892. What property of the tablet mass determines the most how fast a matrix hole of the tablet press machine is filled?

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- c. Porosity
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- a. Humidity
- b. Porosity
- c. Bulk density

d. Fluidity (flowability)

- e. Relative density

2894. What qualitative reaction proves the presence of anthracene-derived compounds in a herbal raw material?

a. Reaction with Fehling's reagent

b. Reaction with an alkali

- c. Reaction with iron sulfate
- d. Reaction with Dragendorff's reagent
- e. Reaction with ammonium iron(III) sulfate

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- d. Reaction with ammonium iron(III) sulfate
- e. Reaction with iron sulfate

2896. What qualitative reaction proves the presence of anthracene-derived compounds in a herbal raw material?

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- b. Reaction with Fehling's reagent
- c. Reaction with Dragendorff's reagent

d. Reaction with an alkali

- e. Reaction with ammonium iron(III) sulfate

2897. What quality indicator is subject to additional control during the production of eye drops in the form of suspensions?

a. Particle size

- b. Dry residue
- c. Acid value and peroxide value
- d. Purification methods
- e. Moisture content

2898. What quality indicator is subject to additional control during the production of eye drops in the form of suspensions?

- a. Acid value and peroxide value
- b. Moisture content
- c. Purification methods

d. Particle size

- e. Dry residue

2899. What quality indicator is subject to additional control during the production of eye drops in the form of suspensions?

- a. Dry residue
- b. Acid value and peroxide value
- c. Moisture content

d. Particle size

- e. Purification methods

2900. What quality parameter must be additionally controlled during the industrial production of suspension eye drops?

- a. Color
- b. Quantitative determination
- c. Transparency
- d. Sterility

e. Particle size

2901. What quality parameter must be additionally controlled during the industrial production of suspension eye drops?

- a. Quantitative determination
- b. Color
- c. Transparency
- d. Sterility

e. Particle size

2902. What quality parameter must be additionally controlled during the industrial production of suspension eye drops?

- a. Quantitative determination
- b. Transparency

c. Particle size

- d. Color
- e. Sterility

2903. What quantification method must be used for the analysis of isoniazid substance, according to the regulations of the State Pharmacopoeia of Ukraine?

- a. Acidimetry in a non-aqueous medium
- b. Alkalimetry
- c. Photocolorimetry

d. Bromatometry

- e. Nitritometry after alkaline hydrolysis

2904. What quantification method must be used for the analysis of isoniazid substance, according to

the regulations of the State Pharmacopoeia of Ukraine?

- a. Acidimetry in a non-aqueous medium
- b. Photocolorimetry

c. Bromatometry

- d. Alkalimetry
- e. Nitritometry after alkaline hydrolysis

2905. What quantification method must be used for the analysis of isoniazid substance, according to the regulations of the State Pharmacopoeia of Ukraine?

- a. Alkalimetry

b. Bromatometry

- c. Photocolorimetry
- d. Acidimetry in a non-aqueous medium
- e. Nitritometry after alkaline hydrolysis

2906. What reagent can confirm that alanine is an alpha-amino acid?

- a. Saturated sodium bicarbonate solution

b. Ninhydrin solution

- c. Sulfuric acid solution
- d. Sulfosalicylic acid solution
- e. Barium hydroxide solution

2907. What reagent can confirm that alanine is an alpha-amino acid?

- a. Sulfuric acid solution
- b. Sulfosalicylic acid solution

c. Ninhydrin solution

- d. Barium hydroxide solution
- e. Saturated sodium bicarbonate solution

2908. What reagent can confirm that alanine is an alpha-amino acid?

- a. Sulfuric acid solution
- b. Sulfosalicylic acid solution
- c. Saturated sodium bicarbonate solution

d. Ninhydrin solution

- e. Barium hydroxide solution

2909. What reagent is used to identify sodium sulfate?

- a. Cobalt chloride

b. Barium chloride

- c. Iron(III) chloride
- d. Calcium chloride
- e. Silver nitrate

2910. What reagent is used to identify sodium sulfate?

- a. Cobalt chloride
- b. Silver nitrate
- c. Calcium chloride

d. Barium chloride

- e. Iron(III) chloride

2911. What reagent should be used by a dispensing chemist-analyst in a reaction for pyridine ring identification?

a. Cyanogen bromide reagent

- b. Hydrochloric acid
- c. Cobalt nitrate solution
- d. Chromotropic acid disodium salt
- e. Silver nitrate solution

2912. What reagent should be used by a dispensing chemist-analyst in a reaction for pyridine ring identification?

- a. Hydrochloric acid
- b. Cobalt nitrate solution
- c. Chromotropic acid disodium salt

d. Cyanogen bromide reagent

e. Silver nitrate solution

2913. What reagent should be used by a dispensing chemist-analyst in a reaction for pyridine ring identification?

a. Silver nitrate solution

b. Cobalt nitrate solution

c. Hydrochloric acid

d. Cyanogen bromide reagent

e. Chromotropic acid disodium salt

2914. What semi-synthetic antibiotic can be synthesized in the process of reaction between 6-aminopenicillanic acid and phenylaminoacetic acid chloranhydride?

a. Ampicillin

b. Rifampicin

c. Amikacin

d. Cephalexin

e. Methacycline

2915. What semi-synthetic antibiotic can be synthesized in the process of reaction between 6-aminopenicillanic acid and phenylaminoacetic acid chloranhydride?

a. Methacycline

b. Amikacin

c. Rifampicin

d. Cephalexin

e. Ampicillin

2916. What semi-synthetic antibiotic can be synthesized in the process of reaction between 6-aminopenicillanic acid and phenylaminoacetic acid chloranhydride?

a. Rifampicin

b. Amikacin

c. Methacycline

d. Ampicillin

e. Cephalexin

2917. What should be the disintegration time for effervescent tablets according to the requirements of the State Pharmacopoeia of Ukraine?

a. 5 minutes

b. 3 minutes

c. 60 minutes

d. 15 minutes

e. 30 minutes

2918. What should be the disintegration time for effervescent tablets according to the requirements of the State Pharmacopoeia of Ukraine?

a. 5 minutes

b. 60 minutes

c. 3 minutes

d. 30 minutes

e. 15 minutes

2919. What should be the disintegration time for effervescent tablets according to the requirements of the State Pharmacopoeia of Ukraine?

a. 15 minutes

b. 3 minutes

c. 60 minutes

d. 30 minutes

e. 5 minutes

2920. What should be used by a dispensing chemist-analyst for identification of bismuth-containing medicinal substances?

a. Thiourea solution

b. Iron(III) sulfate solution

- c. Cobalt nitrate solution
- d. Potassium permanganate solution
- e. Beta-naphthol solution

2921. What should be used by a dispensing chemist-analyst for identification of bismuth-containing medicinal substances?

- a. Cobalt nitrate solution
- b. Iron(III) sulfate solution

c. Thiourea solution

- d. Beta-naphthol solution
- e. Potassium permanganate solution

2922. What should be used by a dispensing chemist-analyst for identification of bismuth-containing medicinal substances?

- a. Potassium permanganate solution
- b. Cobalt nitrate solution

c. Thiourea solution

- d. Iron(III) sulfate solution
- e. Beta-naphthol solution

2923. What should be used by an analytical chemist in the pharmacopoeial analysis of medicinal substances that contain iron(III)?

- a. Potassium permanganate solution
- b. Sodium nitrite solution

c. Potassium thiocyanate solution

- d. Ammonia solution
- e. Ammonium chloride solution

2924. What should be used by an analytical chemist in the pharmacopoeial analysis of medicinal substances that contain iron(III)?

- a. Sodium nitrite solution
- b. Ammonia solution

c. Potassium thiocyanate solution

- d. Potassium permanganate solution
- e. Ammonium chloride solution

2925. What should be used by an analytical chemist in the pharmacopoeial analysis of medicinal substances that contain iron(III)?

- a. Sodium nitrite solution
- b. Ammonia solution
- c. Potassium permanganate solution

d. Potassium thiocyanate solution

- e. Ammonium chloride solution

2926. What side effect is observed in cases of long-term use of digoxin?

a. Bradycardia

- b. Hypertension
- c. Hypokalemia
- d. Constipation
- e. Hypotension

2927. What side effect is observed in cases of long-term use of digoxin?

- a. Constipation
- b. Hypertension

c. Bradycardia

- d. Hypotension
- e. Hypokalemia

2928. What side effect is observed in cases of long-term use of digoxin?

- a. Hypertension
- b. Hypotension

c. Bradycardia

- d. Constipation

e. Hypokalemia

2929. What solution should be used by an expert at the laboratory of the pharmaceutical product certification center to identify the medicines that contain potassium ions?

a. Sodium cobaltinitrite

b. Magnesium sulfate

c. Barium chloride

d. Sodium hydroxide

e. Ammonium oxalate

2930. What solution should be used by an expert at the laboratory of the pharmaceutical product certification center to identify the medicines that contain potassium ions?

a. Ammonium oxalate

b. Sodium cobaltinitrite

c. Sodium hydroxide

d. Magnesium sulfate

e. Barium chloride

2931. What solution should be used by an expert at the laboratory of the pharmaceutical product certification center to identify the medicines that contain potassium ions?

a. Magnesium sulfate

b. Barium chloride

c. Sodium cobaltinitrite

d. Sodium hydroxide

e. Ammonium oxalate

2932. What stabilizer is used to stabilize ascorbic acid solutions for injections?

a. Sodium bicarbonate with sodium sulfite

b. Sodium thiosulfate

c. Weibel stabilizer

d. 0.1 M hydrochloric acid solution

e. 0.1 M sodium hydroxide solution

2933. What stabilizer is used to stabilize ascorbic acid solutions for injections?

a. 0.1 M sodium hydroxide solution

b. Sodium thiosulfate

c. 0.1 M hydrochloric acid solution

d. Sodium bicarbonate with sodium sulfite

e. Weibel stabilizer

2934. What stabilizer is used to stabilize ascorbic acid solutions for injections?

a. Weibel stabilizer

b. 0.1 M hydrochloric acid solution

c. 0.1 M sodium hydroxide solution

d. Sodium bicarbonate with sodium sulfite

e. Sodium thiosulfate

2935. What stabilizer must the pharmacist add, when preparing an atropine sulfate solution for injections?

a. Sodium bicarbonate

b. Sodium hydroxide

c. Ascorbic acid

d. Hydrochloric acid

e. Sodium metabisulfite

2936. What stabilizer must the pharmacist add, when preparing an atropine sulfate solution for injections?

a. Sodium metabisulfite

b. Hydrochloric acid

c. Sodium hydroxide

d. Sodium bicarbonate

e. Ascorbic acid

2937. What stabilizer must the pharmacist add, when preparing an atropine sulfate solution for

injections?

- a. Sodium metabisulfite
- b. Sodium hydroxide
- c. Hydrochloric acid**
- d. Ascorbic acid
- e. Sodium bicarbonate

2938. What structure is authorized to issue permits for individual or collective provision of audit services in Ukraine?

- a. The State Service of Ukraine for Medicines
- b. The Audit Chamber of Ukraine**
- c. The State Service of Ukraine for Drug Control
- d. The Control and Revision Office
- e. The State Regulatory Service of Ukraine

2939. What structure is authorized to issue permits for individual or collective provision of audit services in Ukraine?

- a. The State Service of Ukraine for Medicines
- b. The Control and Revision Office
- c. The Audit Chamber of Ukraine**
- d. The State Service of Ukraine for Drug Control
- e. The State Regulatory Service of Ukraine

2940. What structure is authorized to issue permits for individual or collective provision of audit services in Ukraine?

- a. The State Service of Ukraine for Drug Control
- b. The Audit Chamber of Ukraine**
- c. The Control and Revision Office
- d. The State Regulatory Service of Ukraine
- e. The State Service of Ukraine for Medicines

2941. What substance can be determined using the Beilstein test during rapid analysis of drugs?

- a. Fluoride
- b. Nitrogen
- c. Oxygen
- d. Chlorine**
- e. Hydrogen

2942. What substance can be determined using the Beilstein test during rapid analysis of drugs?

- a. Hydrogen
- b. Nitrogen
- c. Fluoride
- d. Chlorine**
- e. Oxygen

2943. What substance can be determined using the Beilstein test during rapid analysis of drugs?

- a. Oxygen
- b. Chlorine**
- c. Fluoride
- d. Hydrogen
- e. Nitrogen

2944. What substance can be synthesized as a result of the condensation of 5-nitrofurfural with semicarbazide?

- a. Metronidazole
- b. Nitrofural (Nitrofurazone)**
- c. Nitroxoline
- d. Phthalazole (Phthalylsulfathiazole)
- e. Norfloxacin

2945. What substance can be synthesized as a result of the condensation of 5-nitrofurfural with semicarbazide?

- a. Nitroxoline

b. Phthalazole (Phthalylsulfathiazole)

c. Nitrofurantoin (Nitrofurazone)

d. Norfloxacin

e. Metronidazole

2946. What substance can be synthesized as a result of the condensation of 5-nitrofurfural with semicarbazide?

a. Phthalazole (Phthalylsulfathiazole)

b. Metronidazole

c. Norfloxacin

d. Nitrofurantoin (Nitrofurazone)

e. Nitrofurantoin

2947. What substance forms a film coating of tablets and can be dissolved only in intestinal juice?

a. Acetylphthalylcellulose

b. Diethylaminomethylcellulose

c. Sodium carboxymethyl cellulose

d. Benzylaminocellulose

e. Paraaminobenzoate of sugars

2948. What substance forms a film coating of tablets and can be dissolved only in intestinal juice?

a. Acetylphthalylcellulose

b. Sodium carboxymethyl cellulose

c. Diethylaminomethylcellulose

d. Paraaminobenzoate of sugars

e. Benzylaminocellulose

2949. What substance forms a film coating of tablets and can be dissolved only in intestinal juice?

a. Sodium carboxymethyl cellulose

b. Benzylaminocellulose

c. Diethylaminomethylcellulose

d. Acetylphthalylcellulose

e. Paraaminobenzoate of sugars

2950. What substance is a component of the powders enclosed in gelatin capsules?

a. Ethacridine lactate

b. Magnesium oxide

c. Glucose

d. Dimedrol (Diphenhydramine)

e. Streptocide (Sulfanilamide)

2951. What substance is a component of the powders enclosed in gelatin capsules?

a. Dimedrol (Diphenhydramine)

b. Streptocide (Sulfanilamide)

c. Magnesium oxide

d. Glucose

e. Ethacridine lactate

2952. What substance is a component of the powders enclosed in gelatin capsules?

a. Magnesium oxide

b. Streptocide (Sulfanilamide)

c. Ethacridine lactate

d. Dimedrol (Diphenhydramine)

e. Glucose

2953. What substance is most often used as a vehicle in triturations?

a. Lactose

b. Glucose

c. Talcum

d. Starch

e. Sucrose

2954. What substance is most often used as a vehicle in triturations?

a. Lactose

- b. Starch
- c. Sucrose
- d. Glucose
- e. Talcum

2955. What substance is most often used as a vehicle in triturations?

- a. Starch
- b. Glucose
- c. Sucrose

d. Lactose

- e. Talcum

2956. What substances are used as leaveners in <<effervescent>> tablets?

a. Mixtures of sodium bicarbonate with tartaric or citric acid

- b. Aerosil (fumed silica), polysorbate 80
- c. Agar agar, alginic acid
- d. Starch, alginic acid
- e. Sodium bicarbonate, agar agar

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- c. Agar agar, alginic acid
- d. Sodium bicarbonate, agar agar
- e. Starch, alginic acid

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- b. Agar agar, alginic acid
- c. Sodium bicarbonate, agar agar
- d. Starch, alginic acid

e. Mixtures of sodium bicarbonate with tartaric or citric acid

2959. What tablet coating protects stomach from harmful influence of active ingredients?

- a. -
- b. Gastrically absorbed
- c. Fat-soluble

d. Intestinally absorbed

- e. Water-soluble

2960. What tablet coating protects stomach from harmful influence of active ingredients?

- a. Fat-soluble
- b. -
- c. Gastrically absorbed
- d. Water-soluble

e. Intestinally absorbed

2961. What tablet coating protects stomach from harmful influence of active ingredients?

- a. Gastrically absorbed
- b. Water-soluble
- c. -

d. Intestinally absorbed

- e. Fat-soluble

2962. What technological method is used to prepare powders with dyes?

- a. Mixing in ascending order, from smaller to larger volume

b. The principle of <<three layers>>

- c. Mixing in descending order, from larger to smaller volume
- d. The dye is added last, after the mixture is prepared
- e. Preliminary sifting

2963. What technological method is used to prepare powders with dyes?

- a. Preliminary sifting
- b. Mixing in ascending order, from smaller to larger volume

c. Mixing in descending order, from larger to smaller volume

d. The principle of <<three layers>>

e. The dye is added last, after the mixture is prepared

2964. What technological method is used to prepare powders with dyes?

a. The dye is added last, after the mixture is prepared

b. Preliminary sifting

c. The principle of <<three layers>>

d. Mixing in ascending order, from smaller to larger volume

e. Mixing in descending order, from larger to smaller volume

2965. What technology should be chosen by a pharmacist to make a liquid dosage form, if it contains calcium gluconate?

a. Dissolve in alkaline medium

b. Dissolve it in hot solvent or heat it up to full dissolution

c. Add equal amount of sodium chloride

d. Dissolve in the water free of redox substances

e. First grind it into powder when it is dry or with small amount of solvent added

2966. What technology should be chosen by a pharmacist to make a liquid dosage form, if it contains calcium gluconate?

a. Dissolve in the water free of redox substances

b. First grind it into powder when it is dry or with small amount of solvent added

c. Dissolve in alkaline medium

d. Add equal amount of sodium chloride

e. Dissolve it in hot solvent or heat it up to full dissolution

2967. What technology should be chosen by a pharmacist to make a liquid dosage form, if it contains calcium gluconate?

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b. Dissolve in alkaline medium

c. Dissolve it in hot solvent or heat it up to full dissolution

d. Dissolve in the water free of redox substances

e. Add equal amount of sodium chloride

2968. What technology was used by a pharmacist to make a starch solution?

a. Mixed it with cold water, then poured the mixture into boiling water and boiled for 1-2 minutes

b. Mixed it with hot water and added cold water

c. Dissolved it in a vial for dispensing in freshly-distilled filtered purified water

d. Dissolved it in cold water and heated

e. Dissolved it in boiling water

2969. What technology was used by a pharmacist to make a starch solution?

a. Dissolved it in boiling water

b. Mixed it with cold water, then poured the mixture into boiling water and boiled for 1-2 minutes

c. Dissolved it in a vial for dispensing in freshly-distilled filtered purified water

d. Mixed it with hot water and added cold water

e. Dissolved it in cold water and heated

2970. What technology was used by a pharmacist to make a starch solution?

a. Dissolved it in cold water and heated

b. Dissolved it in boiling water

c. Mixed it with cold water, then poured the mixture into boiling water and boiled for 1-2 minutes

d. Dissolved it in a vial for dispensing in freshly-distilled filtered purified water

e. Mixed it with hot water and added cold water

2971. What tincture is industrially manufactured at the ratio of 1:2?

a. Atropa belladonna

b. Hypericum

c. Mentha

d. Leonurus

e. Styphnolobium japonicum

2972. What tincture is industrially manufactured at the ratio of 1:2?

- a. Leonurus
- b. Atropa belladonna

c. Styphnolobium japonicum

- d. Hypericum
- e. Mentha

2973. What tincture is industrially manufactured at the ratio of 1:2?

- a. Mentha
- b. Leonurus
- c. Hypericum
- d. Atropa belladonna

e. Styphnolobium japonicum

2974. What topical antiviral agent should be recommended to the patient with herpetic lesions on the lips?

- a. Aflubin
- b. Arbidol (Umifenovir)

c. Acyclovir

- d. Anaferon
- e. Amizon (Enisamium iodide)

2975. What topical antiviral agent should be recommended to the patient with herpetic lesions on the lips?

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b. Acyclovir

- c. Anaferon
- d. Arbidol (Umifenovir)
- e. Aflubin

2976. What topical antiviral agent should be recommended to the patient with herpetic lesions on the lips?

- a. Anaferon

b. Acyclovir

- c. Aflubin
- d. Amizon (Enisamium iodide)
- e. Arbidol (Umifenovir)

2977. What type of loan does the pharmacy receive in the form of goods, and returns mainly in monetary form?

a. Commercial loan

- b. Bank loan
- c. Prolonged loan
- d. Term loan
- e. State loan

2978. What type of loan does the pharmacy receive in the form of goods, and returns mainly in monetary form?

a. Commercial loan

- b. State loan
- c. Term loan
- d. Bank loan
- e. Prolonged loan

2979. What type of loan does the pharmacy receive in the form of goods, and returns mainly in monetary form?

- a. Bank loan
- b. Prolonged loan

c. Commercial loan

- d. Term loan
- e. State loan

2980. What type of marketing should be used by a pharmaceutical company in a situation, when the demand for medicines declines?

- a. Conversion marketing
- b. Stimulational marketing
- c. Evolving marketing

d. Remarketing

- e. Synchromarketing

2981. What type of marketing should be used by a pharmaceutical company in a situation, when the demand for medicines declines?

- a. Evolving marketing
- b. Stimulational marketing
- c. Synchromarketing

d. Remarketing

- e. Conversion marketing

2982. What type of marketing should be used by a pharmaceutical company in a situation, when the demand for medicines declines?

- a. Stimulational marketing
- b. Synchromarketing
- c. Conversion marketing
- d. Evolving marketing

e. Remarketing

2983. What type of marketing should be used if the demand for some medicines in the pharmaceutical market is negative?

a. Conversion marketing

- b. Synchromarketing
- c. Incentive marketing
- d. Demarketing
- e. Remarketing

2984. What type of marketing should be used if the demand for some medicines in the pharmaceutical market is negative?

- a. Demarketing

b. Conversion marketing

- c. Synchromarketing
- d. Remarketing
- e. Incentive marketing

2985. What type of marketing should be used if the demand for some medicines in the pharmaceutical market is negative?

- a. Synchromarketing
- b. Remarketing
- c. Demarketing
- d. Incentive marketing

e. Conversion marketing

2986. What type of moisture remains after the herbal raw material is dried?

- a. External
- b. Free

c. Residual

- d. Equilibrium
- e. Osmotic

2987. What type of moisture remains after the herbal raw material is dried?

- a. Free

b. Residual

- c. Osmotic
- d. Equilibrium
- e. External

2988. What type of moisture remains after the herbal raw material is dried?

- a. Free
- b. External

c. Osmotic

d. Residual

e. Equilibrium

2989. What type of tax is the Individual Income Tax?

a. Nationwide, indirect

b. Nationwide, direct

c. Local, direct

d. Local, indirect

e. Special

2990. What type of tax is the Individual Income Tax?

a. Nationwide, indirect

b. Special

c. Local, direct

d. Nationwide, direct

e. Local, indirect

2991. What type of tax is the Individual Income Tax?

a. Special

b. Local, indirect

c. Nationwide, indirect

d. Local, direct

e. Nationwide, direct

2992. What variable of the internal environment of the "Provisor" pharmacy can be described as the ways of transformation of component materials (medicinal agents "an gross") into end product (various dosage forms)?

a. Technologies

b. Mission

c. Human resources

d. Structure

e. Tasks

2993. What variable of the internal environment of the "Provisor" pharmacy can be described as the ways of transformation of component materials (medicinal agents "an gross") into end product (various dosage forms)?

a. Tasks

b. Human resources

c. Technologies

d. Mission

e. Structure

2994. What variable of the internal environment of the "Provisor" pharmacy can be described as the ways of transformation of component materials (medicinal agents "an gross") into end product (various dosage forms)?

a. Tasks

b. Mission

c. Technologies

d. Structure

e. Human resources

2995. When a pharmacy restocks its medical products, the incoming products must undergo quality assessment. Who conducts the assessment in this case?

a. A financially accountable person

b. An authorized person

c. A pharmacist

d. The head manager of the pharmacy

e. A representative of the laboratory

2996. When a pharmacy restocks its medical products, the incoming products must undergo quality assessment. Who conducts the assessment in this case?

a. The head manager of the pharmacy

b. A pharmacist

c. An authorized person

d. A financially accountable person

e. A representative of the laboratory

2997. When a pharmacy restocks its medical products, the incoming products must undergo quality assessment. Who conducts the assessment in this case?

a. The head manager of the pharmacy

b. A representative of the laboratory

c. A financially accountable person

d. An authorized person

e. A pharmacist

2998. When activated charcoal is included into the combined therapy, the sorption of other medicines:

a. Accelerates

b. Activates

c. Decreases

d. Remains unchanged

e. Increases

2999. When activated charcoal is included into the combined therapy, the sorption of other medicines:

a. Activates

b. Increases

c. Decreases

d. Remains unchanged

e. Accelerates

3000. When activated charcoal is included into the combined therapy, the sorption of other medicines:

a. Increases

b. Activates

c. Decreases

d. Accelerates

e. Remains unchanged

3001. When an extractant is filtered through a herbal raw material to obtain an extract of the substances soluble in this extractant, this process is called:

a. Percolation

b. Remaceration

c. Steeping

d. Turbo extraction

e. Maceration

3002. When an extractant is filtered through a herbal raw material to obtain an extract of the substances soluble in this extractant, this process is called:

a. Remaceration

b. Maceration

c. Turbo extraction

d. Steeping

e. Percolation

3003. When an extractant is filtered through a herbal raw material to obtain an extract of the substances soluble in this extractant, this process is called:

a. Steeping

b. Percolation

c. Maceration

d. Remaceration

e. Turbo extraction

3004. When analyzing the activity of the pharmacy, the pharmacy's head manager performed the following calculations: the manager subtracted the cost price of the sold goods from the proceeds

from the sales of goods at retail prices. What indicator was calculated by the pharmacy's head manager?

- a. **Markups**
- b. Profitability
- c. Expenses
- d. Commodity circulation
- e. Profit

3005. When analyzing the activity of the pharmacy, the pharmacy's head manager performed the following calculations: the manager subtracted the cost price of the sold goods from the proceeds from the sales of goods at retail prices. What indicator was calculated by the pharmacy's head manager?

- a. Expenses
- b. **Markups**
- c. Commodity circulation
- d. Profitability
- e. Profit

3006. When analyzing the activity of the pharmacy, the pharmacy's head manager performed the following calculations: the manager subtracted the cost price of the sold goods from the proceeds from the sales of goods at retail prices. What indicator was calculated by the pharmacy's head manager?

- a. Profit
- b. **Markups**
- c. Expenses
- d. Profitability
- e. Commodity circulation

3007. When developing a new medicine, marketologists of the pharmaceutical company have conducted an isolated research to determine the doctors' opinion of the medicines currently available on the market. What method of marketing research was used?

- a. Panel
- b. Observation
- c. **Survey**
- d. Experiment
- e. Testing

3008. When developing a new medicine, marketologists of the pharmaceutical company have conducted an isolated research to determine the doctors' opinion of the medicines currently available on the market. What method of marketing research was used?

- a. Testing
- b. Observation
- c. **Survey**
- d. Experiment
- e. Panel

3009. When developing a new medicine, marketologists of the pharmaceutical company have conducted an isolated research to determine the doctors' opinion of the medicines currently available on the market. What method of marketing research was used?

- a. Testing
- b. Observation
- c. Experiment
- d. **Survey**
- e. Panel

3010. When dispensing an antacid and ofloxacin in tablets, the dispensing chemist warned the customer that these drugs should be taken separately with 2-hour interval in between. Simultaneous taking of both drugs:

- a. Decreases antacid effectiveness
- b. Increases antacid effectiveness
- c. **Decreases ofloxacin absorption**

- d. Increases risk of dysbiosis
- e. Increases ofloxacin absorption

3011. When dispensing an antacid and ofloxacin in tablets, the dispensing chemist warned the customer that these drugs should be taken separately with 2-hour interval in between. Simultaneous taking of both drugs:

- a. Increases ofloxacin absorption
- b. Increases risk of dysbiosis
- c. Decreases antacid effectiveness
- d. Increases antacid effectiveness

e. Decreases ofloxacin absorption

3012. When dispensing an antacid and ofloxacin in tablets, the dispensing chemist warned the customer that these drugs should be taken separately with 2-hour interval in between. Simultaneous taking of both drugs:

- a. Increases risk of dysbiosis
- b. Increases ofloxacin absorption

c. Decreases ofloxacin absorption

- d. Increases antacid effectiveness
- e. Decreases antacid effectiveness

3013. When dispensing an iron supplement to be taken orally, the pharmacist must warn the patient that this preparation should not be taken with milk or dairy products. What might happen otherwise, if the patient is not warned?

- a. Faster absorption of the drug
- b. Prolongation of the effect of iron preparations

c. Formation of poorly soluble chelate complexes

- d. Accelerated elimination of the drug
- e. Increased activity of the drug

3014. When dispensing an iron supplement to be taken orally, the pharmacist must warn the patient that this preparation should not be taken with milk or dairy products. What might happen otherwise, if the patient is not warned?

- a. Increased activity of the drug
- b. Accelerated elimination of the drug

c. Formation of poorly soluble chelate complexes

- d. Faster absorption of the drug
- e. Prolongation of the effect of iron preparations

3015. When dispensing an iron supplement to be taken orally, the pharmacist must warn the patient that this preparation should not be taken with milk or dairy products. What might happen otherwise, if the patient is not warned?

- a. Prolongation of the effect of iron preparations
- b. Increased activity of the drug
- c. Faster absorption of the drug

d. Formation of poorly soluble chelate complexes

- e. Accelerated elimination of the drug

3016. When examining a substance with an ester group, you can conduct a reaction that produces:

- a. Azo dye
- b. Berlin blue
- c. Diazonium salt

d. Iron(III) hydroxamate

- e. Indophenol

3017. When examining a substance with an ester group, you can conduct a reaction that produces:

- a. Indophenol

b. Iron(III) hydroxamate

- c. Diazonium salt
- d. Berlin blue
- e. Azo dye

3018. When examining a substance with an ester group, you can conduct a reaction that produces:

- a. Indophenol
- b. Azo dye
- c. Berlin blue
- d. Diazonium salt

e. Iron(III) hydroxamate

3019. When is it necessary to renew the agreement on collective (team) material responsibility?

- a. When 30% of employees from the original team leave the team
- b. When 50% of employees from the original team leave the team**
- c. When 25% of employees from the original team leave the team
- d. Whenever a new employee joins the team
- e. Whenever an employee leaves the team

3020. When is it necessary to renew the agreement on collective (team) material responsibility?

- a. Whenever a new employee joins the team
- b. Whenever an employee leaves the team
- c. When 30% of employees from the original team leave the team
- d. When 50% of employees from the original team leave the team**
- e. When 25% of employees from the original team leave the team

3021. When is it necessary to renew the agreement on collective (team) material responsibility?

- a. Whenever an employee leaves the team
- b. When 30% of employees from the original team leave the team
- c. When 25% of employees from the original team leave the team
- d. When 50% of employees from the original team leave the team**
- e. Whenever a new employee joins the team

3022. When making ampoules, certain admixtures are introduced into the glass to change its properties. Why is boron oxide added into the glass?

- a. To improve its chemical resistance**
- b. To lower its melting temperature
- c. To increase its mechanical strength
- d. To increase its thermal resistance
- e. To change its color

3023. When making ampoules, certain admixtures are introduced into the glass to change its properties. Why is boron oxide added into the glass?

- a. To increase its thermal resistance
- b. To change its color
- c. To lower its melting temperature
- d. To improve its chemical resistance**
- e. To increase its mechanical strength

3024. When making ampoules, certain admixtures are introduced into the glass to change its properties. Why is boron oxide added into the glass?

- a. To lower its melting temperature
- b. To increase its thermal resistance
- c. To improve its chemical resistance**
- d. To change its color
- e. To increase its mechanical strength

3025. When obtaining individual substances, the choice of an extractant is determined mainly by its:

- a. Selectivity toward active substances**
- b. Pharmacological inertness
- c. Cost
- d. Anti-hydrolysis effect
- e. Thermostability

3026. When obtaining individual substances, the choice of an extractant is determined mainly by its:

- b. Selectivity toward active substances**
- c. Anti-hydrolysis effect
- d. Pharmacological inertness

e. Thermostability

3027. When obtaining individual substances, the choice of an extractant is determined mainly by its:

a. Cost

b. Thermostability

c. Selectivity toward active substances

d. Anti-hydrolysis effect

e. Pharmacological inertness

3028. When preparing a solution, the pharmacist used an additional technique - grinding in a mortar with water. What substance typically requires this technique?

a. Boric acid

b. Silver nitrate

c. Furacilin (Nitrofurantoin)

d. Copper sulfate

e. Calcium gluconate

3029. When preparing a solution, the pharmacist used an additional technique - grinding in a mortar with water. What substance typically requires this technique?

a. Calcium gluconate

b. Silver nitrate

c. Boric acid

d. Furacilin (Nitrofurantoin)

e. Copper sulfate

3030. When preparing a solution, the pharmacist used an additional technique - grinding in a mortar with water. What substance typically requires this technique?

a. Furacilin (Nitrofurantoin)

b. Boric acid

c. Silver nitrate

d. Calcium gluconate

e. Copper sulfate

3031. When preparing compound powders, a pharmacist used the "three-layer" method. Which one of the listed substances is a dye?

a. Streptocide (Sulfanilamide)

b. Camphor

c. Sulfur

d. Ethacridine lactate

e. Protargol

3032. When preparing compound powders, a pharmacist used the "three-layer" method. Which one of the listed substances is a dye?

a. Sulfur

b. Camphor

c. Protargol

d. Ethacridine lactate

e. Streptocide (Sulfanilamide)

3033. When preparing compound powders, a pharmacist used the "three-layer" method. Which one of the listed substances is a dye?

a. Sulfur

b. Streptocide (Sulfanilamide)

c. Ethacridine lactate

d. Camphor

e. Protargol

3034. When preparing dermatological ointments the following substance should be introduced by suspending:

a. Camphor

b. Xeroform

c. Menthol

d. Ephedrine hydrochloride

e. Protargol (silver proteinate)

3035. When preparing dermatological ointments the following substance should be introduced by suspending:

a. Ephedrine hydrochloride

b. Xeroform

c. Protargol (silver proteinate)

d. Menthol

e. Camphor

3036. When preparing dermatological ointments the following substance should be introduced by suspending:

a. Menthol

b. Ephedrine hydrochloride

c. Protargol (silver proteinate)

d. Camphor

e. Xeroform

3037. When preparing suspensions, the medicinal substance is ground with a small amount of liquid. What is the optimal amount of liquid for comminution of 20 mg of zinc oxide according to the Deriagin's rule?

a. 10 mL

b. 1 mL

c. 0.5 mL

d. 5 mL

e. 2 mL

3038. When preparing suspensions, the medicinal substance is ground with a small amount of liquid. What is the optimal amount of liquid for comminution of 20 mg of zinc oxide according to the Deriagin's rule?

a. 1 mL

b. 10 mL

c. 2 mL

d. 0.5 mL

e. 5 mL

3039. When preparing suspensions, the medicinal substance is ground with a small amount of liquid. What is the optimal amount of liquid for comminution of 20 mg of zinc oxide according to the Deriagin's rule?

a. 2 mL

b. 10 mL

c. 1 mL

d. 5 mL

e. 0.5 mL

3040. When pressed, tablets stick to the tablet press. Why such adhesion occurs?

a. Excessive moisture of the tablet substance and high pressure

b. Heterogeneity of the granulated material

c. High specific density of the powders

d. Lamellar crystals in the tablet powder

e. Inadequate flowability of the tablet substance

3041. When pressed, tablets stick to the tablet press. Why such adhesion occurs?

a. Excessive moisture of the tablet substance and high pressure

b. Inadequate flowability of the tablet substance

c. Lamellar crystals in the tablet powder

d. Heterogeneity of the granulated material

e. High specific density of the powders

3042. When pressed, tablets stick to the tablet press. Why such adhesion occurs?

a. High specific density of the powders

b. Heterogeneity of the granulated material

c. Excessive moisture of the tablet substance and high pressure

- d. Lamellar crystals in the tablet powder
- e. Inadequate flowability of the tablet substance

3043. When pressing tablets, puncheons of a tableting machine stick to the tablet surface. What technological error is most likely in this case?

a. Insufficient amount of lubricants

- b. Insufficient amount of diluents
- c. Insufficient amount of adhesives
- d. Insufficient amount of dyes
- e. Insufficient amount of leaveners

3044. When pressing tablets, puncheons of a tableting machine stick to the tablet surface. What technological error is most likely in this case?

a. Insufficient amount of diluents

b. Insufficient amount of lubricants

- c. Insufficient amount of dyes
- d. Insufficient amount of leaveners
- e. Insufficient amount of adhesives

3045. When pressing tablets, puncheons of a tableting machine stick to the tablet surface. What technological error is most likely in this case?

- a. Insufficient amount of dyes
- b. Insufficient amount of leaveners

c. Insufficient amount of lubricants

- d. Insufficient amount of diluents
- e. Insufficient amount of adhesives

3046. When selling iron preparations that are to be taken orally, a dispensing chemist should warn the patients that these drugs cannot be taken with milk or dairy products, because it leads to:

a. Formation of chelate complexes that cannot be assimilated into the body

- b. Prolonged action of iron preparations
- c. Increased activity of iron preparations
- d. Accelerated clearance of iron preparations
- e. Accelerated absorption of iron preparations

3047. When selling iron preparations that are to be taken orally, a dispensing chemist should warn the patients that these drugs cannot be taken with milk or dairy products, because it leads to:

- a. Accelerated absorption of iron preparations
- b. Prolonged action of iron preparations

c. Formation of chelate complexes that cannot be assimilated into the body

- d. Increased activity of iron preparations
- e. Accelerated clearance of iron preparations

3048. When selling iron preparations that are to be taken orally, a dispensing chemist should warn the patients that these drugs cannot be taken with milk or dairy products, because it leads to:

a. Prolonged action of iron preparations

b. Formation of chelate complexes that cannot be assimilated into the body

- c. Increased activity of iron preparations
- d. Accelerated absorption of iron preparations
- e. Accelerated clearance of iron preparations

3049. When should aromatic water be added into a mixture, if it functions as a dispersing medium?

- a. After concentrated solutions
- b. After solid medicinal substances are dissolved

c. First

- d. Last, because of its essential oil content
- e. Before ethanol-containing liquids are added

3050. When should aromatic water be added into a mixture, if it functions as a dispersing medium?

a. After solid medicinal substances are dissolved

b. First

- c. After concentrated solutions
- d. Before ethanol-containing liquids are added

e. Last, because of its essential oil content

3051. When should aromatic water be added into a mixture, if it functions as a dispersing medium?

- a. After solid medicinal substances are dissolved
- b. Before ethanol-containing liquids are added
- c. After concentrated solutions

d. First

e. Last, because of its essential oil content

3052. When solution of a medicinal agent is being heated with sodium hydroxide, it produces an acrid smell; red litmus paper soaked in water becomes blue. What ion is being identified in the course of this procedure?

- a. Acetate ion
- b. Arsenite ion

c. Ammonium ion

- d. Carbonate ion
- e. Nitrate ion

3053. When solution of a medicinal agent is being heated with sodium hydroxide, it produces an acrid smell; red litmus paper soaked in water becomes blue. What ion is being identified in the course of this procedure?

- a. Carbonate ion

b. Ammonium ion

- c. Acetate ion
- d. Arsenite ion
- e. Nitrate ion

3054. When solution of a medicinal agent is being heated with sodium hydroxide, it produces an acrid smell; red litmus paper soaked in water becomes blue. What ion is being identified in the course of this procedure?

- a. Carbonate ion
- b. Acetate ion
- c. Nitrate ion
- d. Arsenite ion

e. Ammonium ion

3055. When studying the demand for influenza vaccines, it was found that a pharmacy is insufficiently supplied with these vaccines. What type of demand is it?

a. Unsatisfied

- b. Satisfied
- c. Hidden
- d. Negative
- e. Irrational

3056. When studying the demand for influenza vaccines, it was found that a pharmacy is insufficiently supplied with these vaccines. What type of demand is it?

- a. Irrational
- b. Negative

c. Unsatisfied

- d. Hidden
- e. Satisfied

3057. When studying the demand for influenza vaccines, it was found that a pharmacy is insufficiently supplied with these vaccines. What type of demand is it?

- a. Negative
- b. Irrational
- c. Satisfied
- d. Hidden

e. Unsatisfied

3058. Where on the shop floor of a pharmacy should various nutritional supplements and health food be placed?

- a. Alongside medicines

b. On separate shelves and in separate shopwindows

c. By their Anatomical Therapeutic Chemical Classification

d. By their application

e. By their pharmacotherapy group

3059. Where on the shop floor of a pharmacy should various nutritional supplements and health food be placed?

a. By their Anatomical Therapeutic Chemical Classification

b. On separate shelves and in separate shopwindows

c. By their pharmacotherapy group

d. Alongside medicines

e. By their application

3060. Where on the shop floor of a pharmacy should various nutritional supplements and health food be placed?

a. By their Anatomical Therapeutic Chemical Classification

b. By their pharmacotherapy group

c. By their application

d. On separate shelves and in separate shopwindows

e. Alongside medicines

3061. Which of the following antibiotics can be identified by means of maltol test?

a. Doxycycline hydrochloride

b. Streptomycin sulfate

c. Amoxicillin

d. Kanamycin monosulfate

e. Lincomycin hydrochloride

3062. Which of the following antibiotics can be identified by means of maltol test?

a. Kanamycin monosulfate

b. Streptomycin sulfate

c. Doxycycline hydrochloride

d. Amoxicillin

e. Lincomycin hydrochloride

3063. Which of the following antibiotics can be identified by means of maltol test?

a. Lincomycin hydrochloride

b. Kanamycin monosulfate

c. Amoxicillin

d. Doxycycline hydrochloride

e. Streptomycin sulfate

3064. Which of the following diuretics **SHOULD NOT** be given to the patients with impaired hearing?

a. Clopamide

b. Indapamide

c. Furosemide

d. Spironolactone

e. Chlorthalidone

3065. Which of the following diuretics **SHOULD NOT** be given to the patients with impaired hearing?

a. Indapamide

b. Clopamide

c. Furosemide

d. Spironolactone

e. Chlorthalidone

3066. Which of the following diuretics **SHOULD NOT** be given to the patients with impaired hearing?

a. Spironolactone

b. Furosemide

c. Chlorthalidone

- d. Clopamide
- e. Indapamide

3067. Which of the following pricing factors of a manufacturing pharmaceutical enterprise is internal?

a. Expenses

- b. Consumers
- c. Competitors
- d. Participants in sales channels
- e. State regulation of prices

3068. Which of the following pricing factors of a manufacturing pharmaceutical enterprise is internal?

a. Expenses

- b. State regulation of prices
- c. Competitors
- d. Participants in sales channels
- e. Consumers

3069. Which of the following pricing factors of a manufacturing pharmaceutical enterprise is internal?

a. Consumers

b. Expenses

- c. Competitors
- d. State regulation of prices
- e. Participants in sales channels

3070. Which of the pharmacy departments is responsible for checking the quantity and quality of received goods, their storage and dispensing to other departments?

a. Compounding and production department

b. Inventory department

- c. Department of finished dosage forms
- d. Department of over-the-counter drugs
- e. Department of curative cosmetics

3071. Which of the pharmacy departments is responsible for checking the quantity and quality of received goods, their storage and dispensing to other departments?

- a. Department of curative cosmetics
- b. Compounding and production department
- c. Department of over-the-counter drugs

d. Inventory department

e. Department of finished dosage forms

3072. Which of the pharmacy departments is responsible for checking the quantity and quality of received goods, their storage and dispensing to other departments?

- a. Department of curative cosmetics
- b. Department of over-the-counter drugs
- c. Department of finished dosage forms

d. Inventory department

e. Compounding and production department

3073. Which of the plants listed below contain inulin?

a. Ledum palustre, Acorus calamus

b. Inula helenium, Helianthus tuberosus

- c. Salvia officinalis, Artemisia absinthium
- d. Rhamnus cathartica, Sorbus aucuparia
- e. Juniperus communis, Thymus serpyllum

3074. Which of the plants listed below contain inulin?

- a. Ledum palustre, Acorus calamus
- b. Juniperus communis, Thymus serpyllum

c. Inula helenium, Helianthus tuberosus

- d. Rhamnus cathartica, Sorbus aucuparia
- e. Salvia officinalis, Artemisia absinthium

3075. Which of the plants listed below contain inulin?

a. Rhamnus cathartica, Sorbus aucuparia

- b. *Ledum palustre*, *Acorus calamus*
- c. *Salvia officinalis*, *Artemisia absinthium*
- d. *Juniperus communis*, *Thymus serpyllum*

e. *Inula helenium*, *Helianthus tuberosus*

3076. Which one of the listed drugs is a glycoside antibiotic?

a. Cephalexin

b. Erythromycin

- c. Polymyxin
- d. Levomycetin (Chloramphenicol)
- e. Tetracycline

3077. Which one of the listed drugs is a glycoside antibiotic?

a. Levomycetin (Chloramphenicol)

b. Erythromycin

- c. Tetracycline
- d. Polymyxin
- e. Cephalexin

3078. Which one of the listed drugs is a glycoside antibiotic?

a. Levomycetin (Chloramphenicol)

b. Tetracycline

c. Cephalexin

d. Erythromycin

e. Polymyxin

3079. Which one of the listed solutions for injections must be stabilized with a 0.1 mol-eqL solution of hydrochloric acid?

a. Ascorbic acid

b. Sodium bicarbonate

c. Sodium thiosulfate

d. Caffeine and sodium benzoate

e. Novocaine (Procaine)

3080. Which one of the listed solutions for injections must be stabilized with a 0.1 mol-eqL solution of hydrochloric acid?

a. Caffeine and sodium benzoate

b. Ascorbic acid

c. Novocaine (Procaine)

d. Sodium bicarbonate

e. Sodium thiosulfate

3081. Which one of the listed solutions for injections must be stabilized with a 0.1 mol-eqL solution of hydrochloric acid?

a. Sodium bicarbonate

b. Sodium thiosulfate

c. Caffeine and sodium benzoate

d. Ascorbic acid

e. Novocaine (Procaine)

3082. Who determines the amount of cash that may remain in the cash register at the end of a workday?

a. A revenue and duties authority

b. The company itself

c. The Ministry of Finance

d. The National Bank of Ukraine

e. A statistics authority

3083. Who determines the amount of cash that may remain in the cash register at the end of a workday?

a. A statistics authority

b. The company itself

c. The National Bank of Ukraine

- d. A revenue and duties authority
- e. The Ministry of Finance

3084. Who determines the amount of cash that may remain in the cash register at the end of a workday?

- a. A statistics authority
- b. The Ministry of Finance

c. The company itself

- d. A revenue and duties authority
- e. The National Bank of Ukraine

3085. Who gives permission to distribute medical products between the structural divisions of a pharmacy, after these products have successfully passed the on-receipt inspection?

a. Authorized person

- b. Accountant
- c. Lawyer
- d. Supplier representative
- e. Pharmacist on duty

3086. Who gives permission to distribute medical products between the structural divisions of a pharmacy, after these products have successfully passed the on-receipt inspection?

a. Accountant

b. Authorized person

- c. Supplier representative
- d. Pharmacist on duty
- e. Lawyer

3087. Who gives permission to distribute medical products between the structural divisions of a pharmacy, after these products have successfully passed the on-receipt inspection?

- a. Lawyer
- b. Pharmacist on duty
- c. Accountant

d. Authorized person

e. Supplier representative

3088. Who is responsible for the acceptance of goods and medical products with accompanying incoming quality control?

a. Analyst

b. Authorized representative

- c. Pharmacy head manager
- d. Dispensing chemist
- e. Supplier pharmacist

3089. Who is responsible for the acceptance of goods and medical products with accompanying incoming quality control?

- a. Pharmacy head manager
- b. Analyst
- c. Dispensing chemist

d. Authorized representative

e. Supplier pharmacist

3090. Who is responsible for the acceptance of goods and medical products with accompanying incoming quality control?

- a. Supplier pharmacist
- b. Pharmacy head manager
- c. Dispensing chemist

d. Authorized representative

e. Analyst

3091. Who is responsible for the patient's condition in case of self-treatment?

- a. Drug manufacturer
- b. Head manager of the retail pharmacy
- c. Physician

d. Pharmacist

e. Patient

3092. Who is responsible for the patient's condition in case of self-treatment?

a. Drug manufacturer

b. Physician

c. Patient

d. Pharmacist

e. Head manager of the retail pharmacy

3093. Who is responsible for the patient's condition in case of self-treatment?

a. Pharmacist

b. Patient

c. Physician

d. Drug manufacturer

e. Head manager of the retail pharmacy

3094. Why are leavening agents introduced into the tablet mass?

a. Ensuring rapid mechanical destruction of the tablets in a liquid medium

b. Improvement of the granulation process

c. Obtaining tablets of the required weight

d. Making it easier to push the tablets out of the matrix

e. Taste improvement

3095. Why are leavening agents introduced into the tablet mass?

a. Ensuring rapid mechanical destruction of the tablets in a liquid medium

b. Taste improvement

c. Making it easier to push the tablets out of the matrix

d. Improvement of the granulation process

e. Obtaining tablets of the required weight

3096. Why are leavening agents introduced into the tablet mass?

a. Taste improvement

b. Obtaining tablets of the required weight

c. Ensuring rapid mechanical destruction of the tablets in a liquid medium

d. Making it easier to push the tablets out of the matrix

e. Improvement of the granulation process

3097. Within the last year the "East-Pharmacy" pharmaceutical wholesaler has lost 10% of its employees, who resigned and were hired by the competitor company "East-Optima". Individual transfer of the "East-Pharmacy" employees to the "East-Optima" company can be characterized as:

a. Staff turnover

b. Job rotation

c. Staff motivation

d. Personnel certification

e. Staff dynamics

3098. Within the last year the "East-Pharmacy" pharmaceutical wholesaler has lost 10% of its employees, who resigned and were hired by the competitor company "East-Optima". Individual transfer of the "East-Pharmacy" employees to the "East-Optima" company can be characterized as:

a. Staff dynamics

b. Staff turnover

c. Personnel certification

d. Staff motivation

e. Job rotation

3099. Within the last year the "East-Pharmacy" pharmaceutical wholesaler has lost 10% of its employees, who resigned and were hired by the competitor company "East-Optima". Individual transfer of the "East-Pharmacy" employees to the "East-Optima" company can be characterized as:

a. Staff dynamics

b. Job rotation

c. Personnel certification

d. Staff turnover

e. Staff motivation

3100. Working hours for the pharmacy workers are reduced. What is the length of the work week for the pharmacist-analyst?

a. 36 hours

b. 32 hours

c. 30 hours

d. 24 hours

e. 45 hours

3101. Working hours for the pharmacy workers are reduced. What is the length of the work week for the pharmacist-analyst?

a. 24 hours

b. 30 hours

c. 32 hours

d. 45 hours

e. 36 hours

3102. Working hours for the pharmacy workers are reduced. What is the length of the work week for the pharmacist-analyst?

a. 45 hours

b. 24 hours

c. 30 hours

d. 32 hours

e. 36 hours

3103. Xycaine quantitative content can be determined by means of argentometry (back titration). What indicator is required by this method?

a. Iron (III) ammonium sulphate

b. Potassium chromate

c. Starch

d. Sodium eosinate

e. Bromphenol blue

3104. Xycaine quantitative content can be determined by means of argentometry (back titration). What indicator is required by this method?

a. Bromphenol blue

b. Iron (III) ammonium sulphate

c. Potassium chromate

d. Sodium eosinate

e. Starch

3105. Xycaine quantitative content can be determined by means of argentometry (back titration). What indicator is required by this method?

a. Starch

b. Sodium eosinate

c. Iron (III) ammonium sulphate

d. Bromphenol blue

e. Potassium chromate