

1. A certain state authority was created to reform the healthcare sector in Ukraine. It is responsible for purchasing medical services from healthcare institutions (regardless of their form of ownership) or sole practitioners, as well as covering the cost of such services within the scope of the state-guaranteed medical care. Name this state authority.

- a. Ministry of Health of Ukraine
- b. Regional State Administration
- c. Cabinet of Ministers of Ukraine
- d. National Health Service of Ukraine**
- e. Primary healthcare center

2. A 34-year-old woman with type 1 diabetes mellitus has suddenly lost her consciousness. Objectively, convulsive muscle twitching and mydriasis are observed, the skin is pale and moist, pulse - 98/min, blood pressure - 110/70 mm Hg. What drug must be administered immediately when providing emergency aid for this patient?

- a. 40% glucose solution intravenously**
- b. 10-14 U of short-acting insulin intravenously
- c. 5% glucose solution intravenously
- d. 0.1% adrenaline (epinephrine) solution intramuscularly
- e. 0.2% solution of noradrenaline intravenously

3. A patient diagnosed with peptic ulcer disease of the duodenum complains of weakness, shortness of breath during even mild physical exertion, and taste distortion (the urge to eat chalk). Objectively, the patient is pale and presents with trophic changes in the skin. In the blood, the following is observed: Hb - 90 g/L, erythrocytes -  $3.3 \cdot 10^{12}/L$ , color index - 0.75. What complication of the underlying disease has developed in the patient?

- a. Erythremia
- b. Iron deficiency anemia**
- c. Hemolytic anemia
- d. Aplastic anemia
- e. B<sub>12</sub>-deficiency anemia

4. Which one of the listed patients has indications for treatment at the day hospital of a healthcare center?

- a. A 49-year-old man with exacerbation of chronic cholecystitis**
- b. A 56-year-old man with end-stage liver cirrhosis
- c. A 67-year-old man with an acute cerebrovascular accident
- d. A 78-year-old woman with stage IV stomach cancer
- e. A 27-year-old woman with indications for osteosynthesis

5. After a stroke, the patient is very afraid of losing her balance and falling down, which is why she refuses to do balance exercises. A nurse at the rehabilitation department of a hospital talked with the patient about her fears and suggested that they work together to develop a strategy to overcome them. What rehabilitation principle did the nurse implement during the nursing intervention?

- a. Patient-centeredness**
- b. Consistency
- c. Purposefulness
- d. Continuity
- e. Timeliness

6. What type of management is predominant at a healthcare facility, if the authority to make managerial decisions is mostly concentrated in the hands of the facility's head manager?

- a. Mixed
- b. Linear-functional
- c. Centralized**
- d. Decentralized
- e. Functional

7. During examination of the patient's chest, a nurse at the therapeutic department of a hospital

noticed the following changes: an increased anteroposterior size, widening of the intercostal spaces, horizontal arrangement of the ribs, bulging supraclavicular and infraclavicular fossae, and an obtuse epigastric angle. What pathological shape of the chest has formed in the patient?

- a. Rickets breast
- b. Pectus carinatum
- c. Pectus excavatum
- d. Thorax paralyticus
- e. Emphysematous chest**

8. A certain type of organizational structure allows organizing the management process according to the following scheme: top-level manager - lower-level manager - employees who perform the main work in the organization. This structure can also be characterized by methodological support provided by the organization's specialized subdivisions for performing management tasks. Name this type of organizational structure.

- a. Matrix structure
- b. Divisional product-oriented structure
- c. Linear-functional structure**
- d. Line-staff structure
- e. Project-oriented structure

9. By the order of the Ministry of Health, a new department was created at a healthcare institution. This department included an epidemiologist, an epidemiologist's assistant, a coordinator for the administration of antimicrobial drugs, a coordinator for the hand hygiene, a coordinator for the training in infection prevention, and a statistician. What department was created at a healthcare institution?

- a. Department for prevention of nosocomial infections
- b. Epidemiology department
- c. Infection control department**
- d. Infectious diseases department
- e. Department for especially dangerous infections

10. An 82-year-old woman complains of pain in the mesogastric region, nausea, and three episodes of vomiting. What is the correct sequence of methods for objective examination of the digestive system in this case?

- a. Inspection, percussion, auscultation, palpation
- b. Inspection, auscultation, percussion, palpation**
- c. Inspection, percussion, palpation, auscultation
- d. Inspection, palpation, percussion, auscultation
- e. Inspection, auscultation, palpation, percussion

11. According to the stages of the organizational life cycle, everything begins with the organisation's "birth" (founding). What stage of the organizational life cycle includes attracting investments, as well as significant renewal of its human resources and types and areas of its business activities?

- a. Childhood
- b. Youth
- c. Revival**
- d. Decline
- e. Early maturity

12. A 37-year-old patient has been prescribed inhalations of ipratropium bromide (Berodual). What device is used for inhalations of this drug, ensuring its ultrafine dispersion and deep penetration into the lower respiratory tract?

- a. Nebulizer**
- b. -
- c. Peak flow meter
- d. Pulse oximeter
- e. Spirometer

13. A 10-year-old girl presents with long-term subfebrile body temperature and a decrease in her body weight. Objective examination detects pallor of the skin and mucosa, fine petechial rash on the skin of the torso and limbs, generalized enlargement of lymph nodes, and hepatosplenomegaly. Anemia, leukopenia, and thrombocytopenia are observed in the peripheral blood. Total blast transformation is observed in the puncture material obtained from the bone marrow. What disease can be characterized by the described clinical presentation and laboratory findings?

a. Acute leukemia

b. Erythremia

c. Hidradenitis

d. Infectious mononucleosis

e. Fanconi anemia

14. A 30-year-old woman has developed an attack of paroxysmal tachycardia. What measures should be taken first, when providing emergency aid in this case?

a. Performing vagal maneuvers

b. Performing electrical defibrillation

c. Administering hypotensive drugs

d. Ensuring a horizontal body position

e. -

15. As a result of hostilities, a person was buried under the rubble of a destroyed building. Objectively, his right leg is compressed by the fragments of concrete structures, it is pale and edematous, its sensitivity is impaired, there is no pulse on the popliteal artery. What actions should be taken if it is necessary to urgently evacuate this person and more than 10 minutes have passed since the limb had been compressed?

a. Apply a tourniquet to the limb above the compression site before releasing it

b. Massage the compressed limb immediately after releasing it

c. Apply a tourniquet to the limb above the compression site after releasing it

d. Immediately after releasing the limb, raise it above the level of the patient's head

e. Immediately after releasing the limb, rub it with an alcohol-containing solution

16. A patient is in the surgical department of a hospital after pyloroantrectomy (stomach surgery due to pyloric stenosis). He has history of chronic bronchitis and thrombophlebitis of the leg veins. What method of hypostatic pneumonia prevention should be used in this case during the early postoperative period?

a. Antibiotic therapy

b. Breathing exercises

c. Frequent ventilation of the room

d. Strict bed rest

e. Elastic bandaging of the legs

17. In an operating room, where clear allocation of tasks is crucial for the patient safety, there is a risk of conflict due to unclear functional responsibilities. What structural method of management would be most effective for preventing and resolving conflicts among the healthcare personnel in this case?

a. Flexibility

b. Clarification

c. Consensus

d. -

e. Negotiation

18. A family doctor has provisionally diagnosed the patient with hypothyroidism and referred the patient for a consultation at the endocrinological hospital. What type of medical care will the patient receive in this healthcare facility?

a. Tertiary

b. Primary

c. Emergency

d. Urgent

e. Secondary

19. A 62-year-old patient complains of pain in the right knee joint. The pain occurs at the moment of starting the movement and decreases after walking for a while. Recently, a feeling of "blocking" has appeared in the joint, when the leg "gets stuck" in a certain position, which is accompanied by sharp pain and restriction of movements. Objectively, deformation of the knee joint, crunching in the knee, and restriction of its flexion are observed. What disease are these symptoms most characteristic of?

- a. Rheumatoid arthritis
- b. Gout
- c. Systemic lupus erythematosus
- d. Bursitis

**e. Deforming osteoarthritis**

20. Medical care is provided to the population by healthcare institutions, the nomenclature of which is approved by the Ministry of Health of Ukraine. What institutions are considered to be treatment and prevention institutions?

- a. Clinical laboratories
- b. Bacteriological laboratories

**c. Outpatient clinics**

- d. -
- e. Pharmacies

21. A 56-year-old woman has developed the following symptoms because of vitamin B<sub>12</sub> deficiency in her body: gait changes, atrophy of the leg muscles, and impaired sensitivity in the limbs. What disease can be characterized by this complex of symptoms?

- a. Polyarthritis
- b. Osteoporosis
- c. Metabolic myopathy

**d. Funicular myelosis**

- e. Atherosclerosis

22. A 29-year-old woman complains of itching and burning in the area of her external genitalia and discomfort in the vagina that intensifies during sexual intercourse. Gynecological examination detects that the vaginal mucosa is hyperemic and edematous. There are petechial hemorrhages on the mucosa of the vaginal part of the cervix ("strawberry cervix"). Vaginal secretions are foamy, gray-yellow, and foul-smelling. What disease are these symptoms characteristic of?

- a. Bacterial vaginosis
- b. Aerobic vaginitis
- c. Candidal vulvovaginitis

**d. Trichomoniasis**

- e. Chlamydiosis

23. What informational analytical document has been written by the ward nurse at the request of the senior nurse at the therapeutic department of a hospital in connection with the ward nurse being late for work?

**a. Explanation letter**

- b. Internal memo
- c. Disciplinary note
- d. Absence report
- e. Resignation letter

24. Over the past three years, a 5-year-old child had periodic episodes of sneezing and an itchy nose (the child often scratches and wrinkles the nose, which has caused a transverse crease to appear above the tip of the nose). The child also has nasal congestion, copious clear nasal discharge, difficulty breathing through the nose, and bruises under the eyes. What disease can be characterized by this complex of symptoms?

- a. Acute maxillary sinusitis
- b. Acute pharyngitis
- c. Nasal diphtheria

**d. Allergic rhinitis**

e. Infectious mononucleosis

25. A full-term newborn girl developed bloody mucous discharge from the pudendal fissure and enlarged mammary glands on the fourth day of life. The child's general condition is satisfactory, her appetite is normal, her sleep is not disturbed, her reflexes are lively and age-appropriate. What condition are these symptoms typical of?

a. Purulent mastitis

b. Vulvovaginitis

c. Hormonal effects in newborns

d. Uric acid renal infarction

e. Vaginitis

26. A patient at the hematology department of a hospital has been provisionally diagnosed with chronic lymphocytic leukemia. What is the most characteristic objective clinical sign of this disease?

a. Jaundice

b. Anasarca

c. Hemarthrosis

d. Arthralgia

e. Lymphadenopathy

27. After performing an intravenous injection, the nurse placed the used syringe into a sharps container with a lid. What category of medical waste does the used syringe belong to?

a. B

b. C

c. -

d. A

e. D

28. During a consultation at a primary healthcare center, the mother of a 3-year-old child is interested in the principles of healthy eating. What percentage of the child's daily diet should be provided with breakfast to ensure healthy eating according to the WHO recommendations?

a. 15%

b. 40%

c. 35%

d. 50%

e. 25%

29. A patient at the cardiology department of a hospital undergoes cardiac auscultation. What heart valve can be best heard at the point located in the second intercostal space to the right of the sternum?

a. Pulmonary valve

b. Aortic valve

c. Mitral valve

d. Tricuspid valve

e. -

30. A 68-year-old patient with diabetes mellitus has been hospitalized in a comatose state. Objectively, marked dryness is observed in the skin and mucosa, the tone of the eyeballs is decreased. The patient exhibits no Kussmaul breathing or acetone breath from the mouth. Pulse - 120/min. Marked hyperglycemia is detected (blood glucose - 45 mmol/L). What type of coma has developed in the patient?

a. Diabetic ketoacidotic

b. Hyperosmolar

c. -

d. Lactacidotic

e. Hypoglycemic

31. What scale is used for objective assessment of the patient's consciousness and is applied mainly in cases of traumatic brain injuries?

- a. Frankel
- b. Apgar
- c. Norton
- d. Glasgow**
- e. Barthel

32. A patient with liver cirrhosis presents with dilation of the subcutaneous veins of the anterior abdominal wall, vascular murmur in the umbilical region during auscultation, hepatosplenomegaly, and ascites. What complication of liver cirrhosis has developed in the patient?

- a. Arterial hypertension
- b. Portal hypertension**
- c. Gilbert syndrome
- d. Chronic renal failure
- e. Thrombophlebitis

33. The complexity and diversity of organizations necessitate their classification. What types of organizations are there, based on the results of the organization's work?

- a. Private and state-owned
- b. Formal and informal
- c. Sole and cooperative
- d. Temporary and non-temporary
- e. Commercial and non-commercial**

34. A 58-year-old woman complains of general weakness, decreased working ability, drowsiness, dry and peeling skin, hair loss, hoarse voice, weight gain, and chills. Objectively, she has a doughy face, yellowish skin, enlarged tongue, and excessive subcutaneous fat. Pulse - 56/min, rhythmic. Blood pressure - 100/60 mm Hg. Hormone levels in the blood: T<sub>4</sub> and T<sub>3</sub> levels are reduced, TSH levels are increased. What thyroid disorder can be characterized by the described clinical presentation and laboratory findings?

- a. Acute thyroiditis
- b. Chronic thyroiditis
- c. Hypothyroidism**
- d. Thyrotoxicosis
- e. Toxic nodular goiter

35. A certain mandatory document must be submitted by a healthcare professional to undergo certification. This document provides information about the work of the healthcare professional and gives an assessment of this person's professional and moral qualities. Name this document.

- a. Employment reference letter**
- b. Curriculum vitae
- c. Medical Committee meeting minutes
- d. Income certificate
- e. Employee's medical record

36. A 55-year-old patient has been diagnosed with arterial hypertension, stage I, degree 2. He was prescribed amlodipine as a part of two-component antihypertensive therapy. What is the pharmacological group of this drug?

- a. Calcium antagonists**
- b. Adrenergic antagonists
- c. Adrenergic agonists
- d. Loop diuretics
- e. Thiazide diuretics

37. What general management function allows the management of a healthcare facility to attract and retain highly qualified healthcare professionals, apply their achievements, and contribute towards improving the team's performance as a whole?

- a. Prediction
- b. Organization**

c. Motivation

d. Control

e. Planning

38. What is prescribed for all healthy newborns on the first day of life to prevent hemorrhagic disease of the newborn?

a. Vitamin K

b. Vitamin C

c. Tranexamic acid

d. Vitamin D

e. Heparin

39. What type of communication involves exchanging information, suggestions, demands, views, and motivations to solve specific problems both within the organization and outside the organization?

a. Etiquette communication

b. Emotional communication

c. Friendly communication

d. Business communication

e. Formal communication

40. A doctor has diagnosed a patient with type 2 diabetes mellitus and prescribed him an antidiabetic drug (metformin). The patient has informed the doctor of his financial difficulties. What explanation should be given to the patient regarding the purchase of the drug?

a. The patient should contact social services that can help with purchasing medicines

b. The drug should be purchased later, when the patient has the necessary funds

c. With the prescription, the drug can be obtained free of charge or purchased at a discount at the pharmacies that participate in the Affordable Medicines Program

d. The drug may be purchased not immediately, but later, when the patient's financial situation is more stable

e. The drug can be purchased at a discount, when pharmacies have this drug on sale

41. A man developed a tension pneumothorax as a result of a penetrating chest wound, which is accompanied by rapidly increasing dyspnea, cyanosis, tachycardia, and hypotension. What is the optimal location for urgent puncture decompression in this case?

a. Fifth intercostal space along the anterior inguinal line axillary line

b. Second intercostal space along the parasternal line

c. -

d. Fifth intercostal space along the midclavicular line

e. Fourth intercostal space along the anterior inguinal line axillary line

42. The senior nurse at an outpatient clinic prepares the work schedule for her subordinates. What are the workload norms for a general practice nurse under the current Ukrainian legislation?

a. 450 people in the urban areas, 150 people in the rural areas

b. 900 people in the urban areas, 800 people in the rural areas

c. 750 people in the urban areas, 600 people in the rural areas

d. 800 people in the urban areas, 400 people in the rural areas

e. 1500 people in the urban areas, 1200 people in the rural areas

43. What is the form of primary healthcare, where the general practitioner provides medical care to the members of the families registered with him throughout their lives and bears full responsibility for their health?

a. Specialized healthcare

b. Pediatrics

c. Emergency (urgent) care

d. Family medicine

e. Consultancy

44. The head nurse of a healthcare facility concentrates management functions in her own hands, independently makes decisions on all issues, and builds relationships with her subordinates on an

official basis, assigning their tasks in a formal, strict tone. What management style uses such approach to interaction with subordinates?

a. Authoritarian

b. -

c. Liberal

d. Collegial

e. Business

45. What healthcare facility provides medical care in many medical specialties both for the outpatients and inpatients?

a. Hospice

b. Perinatal center

c. Polyclinic

d. Blood transfusion station

e. Sanitary station

46. A 42-year-old woman complains of shortness of breath, moderate cough with a small amount of sputum, heaviness in her chest on the left, and fever of  $38.2^{\circ}\text{C}$ . Objectively, her respiratory rate is 28/min, the left half of the chest lags behind in the act of breathing. The vocal vibration is markedly weakened below the angle of the left scapula, auscultation detects no respiratory sounds in this area. What disease are these symptoms most characteristic of?

a. Exudative pleurisy

b. Intercostal neuralgia

c. Pulmonary tuberculosis

d. Bronchiectasis

e. Lung abscess

47. A 2-year-old child had a gradual onset of the disease, with an increased body temperature, copious mucous discharge from the nose, conjunctivitis, and diarrhea. Objective examination detects injected scleral vessels, hyperemic oropharyngeal mucosa, hypertrophy of the palatine tonsils, and enlarged cervical lymph nodes and spleen. What type of acute respiratory viral infection can be characterized by such clinical presentation?

a. Respiratory syncytial infection

b. -

c. Parainfluenza infection

d. Influenza infection

e. Adenovirus infection

48. A patient with *H. pylori*-associated gastritis has been prescribed clarithromycin as a component of complex therapy. What is the pharmacological group of this drug?

a. Antacids

b. Antispasmodics

c. Antibiotics

d. Gastroprotectors

e. Probiotics

49. A 55-year-old woman is unconscious. She has history of insulin-dependent diabetes mellitus and arterial hypertension. Objectively, she presents with pale skin, profuse sweating, dilated pupils, and seizures. Pulse - 98/min, blood pressure - 140/90 mm Hg. What pathological condition has developed in the patient?

a. Hypoglycemic coma

b. Hyperglycemic coma

c. Hypertensive crisis

d. Cardiogenic shock

e. Anaphylactic shock

50. A 43-year-old patient has been provisionally diagnosed with chronic pancreatitis. What laboratory markers would be of the greatest diagnostic value for detecting pancreatic dysfunction?



- a. Transaminases, C-reactive protein
- b. Bilirubin, transaminases
- c. Prothrombin index, hematocrit
- d. Cholesterol, bilirubin
- e. alpha-Amylase, elastase 1**

51. A patient has suddenly lost his consciousness but has a pulse and is breathing unassisted. What position should the patient be placed in to prevent regurgitation and tongue falling backwards, while awaiting the arrival of an ambulance medical team?

- a. Fowler position
- b. Orthopneic position
- c. Trendelenburg position
- d. Sims position
- e. Stable side position**

52. A child born with the body weight of 5200 g objectively presents with the following: dense edemas on the backs of the hands and feet, facial edemas, half-open mouth, enlarged tongue and lips, rough, low-pitched voice during crying, slowness of movements and reflexes, late discharge of meconium. Name the main drug that should be used in the treatment of this child.

- a. Hydrocortisone
- b. Levothyroxine (L-thyroxine)**
- c. Diazepam
- d. Prednisolone
- e. Potassium iodide (Iodomarin)

53. A 6-year-old child has suddenly developed fever of  $39.5^{\circ}\text{C}$ . What drug is absolutely contraindicated for fever reduction in children under 15 years of age?

- a. -
- b. Mefenamic acid
- c. Ibuprofen
- d. Paracetamol
- e. Acetylsalicylic acid**

54. What type of medical care is provided for the patients with late-stage terminal illnesses to relieve their symptoms and improve their quality of life?

- a. Palliative**
- b. Highly qualified
- c. Primary
- d. Secondary
- e. Rehabilitation

55. A 42-year-old man has been diagnosed with mandibular dislocation. What type of bandage must be applied after the reduction of the mandible to immobilize (fixate) the jaw in a certain position?

- a. Cap
- b. Knotted
- c. Neapolitan
- d. Figure-of-eight
- e. Sling**

56. Name the three main types of manager's behavior, based on the leadership style.

- a. Autocratic, democratic, liberal**
- b. Partocratic, monarchic, liberal
- c. Democratic, liberal, ochlocratic
- d. Anarchic, autocratic, partocratic
- e. Democratic, monarchic, partocratic

57. What aspect of the management process concerns creating and reinforcing the system of rights, duties, powers, and responsibilities of employees and departments in the context of performing specific operations and types of work and implementing various stages of managerial decisions?

**a. Organizational**

- b. Economic
- c. Social
- d. Legal
- e. Technological

58. Against the background of paroxysmal cough, an inpatient at the phthisiatric department of a hospital developed acute dyspnea and chest pain on the right that radiates into the right shoulder. Objectively, cyanosis of the lips is observed, respiratory rate - 34/min, blood pressure - 100/60 mm Hg, pulse - 110/min. The right half of the chest lags behind in the act of breathing. Percussion of the chest produces a markedly tympanic sound on the right. Auscultation detects weakening of the respiratory sounds on the right. What pathological condition has most likely developed in the patient?

- a. Pulmonary edema
- b. Bronchial asthma attack

**c. Spontaneous pneumothorax**

- d. Pulmonary thromboembolism
- e. Acute coronary syndrome

59. What should be the priority actions of a healthcare worker before starting to provide emergency aid for an injured person in an emergency situation?

- a. Check the injured person's vital signs (pulse, blood pressure, respiratory rate)
- b. Immediately transport the injured person to the nearest healthcare facility
- c. Immediately begin cardiopulmonary resuscitation
- d. Place the injured person in the stable side position

**e. Assess the site of the emergency and ensure safety - both own and the injured person's**

60. When discussing a conflict situation, the general director of a healthcare facility emphasizes that the healthcare management system in Ukraine has three levels. What position belongs to the operational level of management?

- a. Deputy chief physician
- b. Senior nurse at the hospital's department**
- c. Ward nurse at the hospital's department
- d. Head nurse
- e. Chief physician

61. The head nurse of the pediatric department at a children's hospital supervises medical personnel handling medical waste. What category is assigned to toxicologically hazardous medical waste?

- a. D
- b. -
- c. B
- d. C**
- e. A

62. A conflict arose between the nurses working at the same department of a hospital due to differences in their approach to patient care. What type of conflict is it?

- a. Interpersonal conflict**
- b. Intergroup conflict
- c. Intrapersonal conflict
- d. Individual-group conflict
- e. -

63. A 30-year-old woman, who was bitten by a snake on her leg, complains of rapidly increasing edema of the limb and sharp pain and burning sensation in the area of the snake bite. What measure is a component of the emergency aid algorithm in this case?

- a. Immobilization of the limb**
- b. Sucking the venom out of the bite site
- c. Applying a tourniquet to the limb above the bite site
- d. Skin incision at the bite site

e. Cauterizing the bite site with a hot object

64. When working at an industrial facility, one of the workers was electrocuted. The worker is lying unconscious on the ground and a wire is visible in his hand. What would be the first step, when providing first aid for this person?

a. Immediately begin cardiopulmonary resuscitation

**b. Safely break the person's contact with the source of electrical current**

c. Perform oxygen therapy

d. Administer a 0.1% adrenaline (epinephrine) solution intravenously

e. Wait for the arrival of an emergency medical team (ambulance)

65. What is the approximate age of a child, who is well able to fix the eyes on bright objects, raises the head when lying on the stomach, makes small sounds ("cooing"), smiles, and sleeps approximately 18-20 hours a day?

a. 7 months

b. 5 months

c. 8 months

d. 4 months

**e. 2 months**

66. At what stage must the upper airway patency be assessed according to the MARCH protocol?

a. H

b. C

c. M

**d. A**

e. R

67. Assessment of the person's level of consciousness shows that this person does not respond to external verbal and pain stimuli (remains unconscious). What scale has been used in this case to assess the level of consciousness?

**a. AVPU**

b. SAMPLE

c. SCORE

d. ABCDE

e. FAST

68. What position is being held by the head manager of a non-state-owned healthcare facility, who is responsible for the rational financial and economic activity of the facility and its usage of material, financial, and human resources?

a. Resident doctor

**b. Director**

c. Senior nurse

d. Head manager of the department

e. Chief nurse

69. The concept of providing aid to injured persons at the pre-hospital stage is based on conducting initial examination of the injured person. What is the main purpose of this examination?

a. Ensuring patency of the upper airways and stabilization of the cervical spine

b. Providing psycho-emotional support

c. Ensuring sufficient oxygenation to maintain aerobic metabolism

d. Analysis of central nervous system functions

**e. Rapid identification of life-threatening conditions and their immediate elimination**

70. A woman, gravida 1, gave birth to a full-term baby with the body weight of 3300 g and the body length of 51 cm. When should the newborn baby be weighed for the first time?

a. After carrying out the ophthalmia prevention

**b. In the delivery room, after the skin-to-skin contact is over**

c. Immediately after ligation of the umbilical cord

d. Five minutes after birth

e. During the second day after birth

71. Name the diseases, vaccination against which begins at the age of 12 months (the first dose of the vaccine is administered) according to the National Immunization Schedule in Ukraine.

a. Pertussis, diphtheria, tetanus

**b. Mumps, rubella, measles**

c. Diphtheria, tuberculosis, viral hepatitis B

d. Tuberculosis, pertussis, viral hepatitis B

e. Rubella, pertussis, tuberculosis

72. A 20-year-old woman complains of copious secretions from her genital tract with an unpleasant "fishy" odor. The results of the gynecological examination are as follows: the mucosa of the vagina is pale pink, vaginal secretions are milky white and stick to the walls of the vagina, pH of the vagina - 5.0. What pathology are these symptoms characteristic of?

a. Genital herpes

b. Candidal vulvovaginitis

**c. Bacterial vaginosis**

d. Trichomoniasis

e. Chlamydiosis

73. As a stress reaction, the patient has developed a pathological condition that manifests as a significantly decreased level of responsiveness to external stimuli (even potentially life-threatening ones), limited spontaneous movements, and reduced activity. What pathological condition has developed in the patient?

a. Dementia

**b. Stupor**

c. Coma

d. Delirium

e. Paralysis

74. The senior nurse at the therapeutic department of a hospital organizes the work of her subordinates, using command information as an element of information support. What key characteristic of information is crucial for providing high-quality patient care and prompt execution of doctor's prescriptions by nurses?

a. -

**b. Timeliness**

c. Usefulness

d. Periodicity

e. Accessibility

75. A 45-year-old patient complains of a long-term cough, weight loss, general weakness, night sweats, and subfebrile body temperature. The patient has been provisionally diagnosed with pulmonary tuberculosis. What is the main finding that can confirm this diagnosis?

a. Positive Mantoux test

b. Positive QuantiFERON test

c. Leukocytosis in the peripheral blood

d. Specific radiological changes in the chest organs

**e. Tuberculosis pathogen detected in patient's sputum**

76. A 19-year-old girl presents with changes in her appearance: enlarged hands, feet, and facial skeleton. Her height is 195 cm. What hormone must be measured first in the patient's blood?

a. Insulin

b. Thyrotropin

c. Progesterone

d. Testosterone

**e. Somatotropin**

77. A 9-year-old child has an ongoing attack of supraventricular tachycardia. The attack did not stop after performing vagal maneuvers (Valsalva maneuver). What drug should be administered in this

case?

a. Adenosine

b. Analgin (metamizole sodium)

c. Amiodarone

d. Atropine

e. Adrenaline (epinephrine)

78. The cardiac monitor of an unconscious patient shows cardiac arrhythmia that requires immediate defibrillation. What heart rhythm is an indication for defibrillation?

a. Asystole

b. Pulseless electrical activity

c. Pulseless ventricular tachycardia

d. Atrial fibrillation

e. Atrioventricular block

79. A combat medic provides care to the wounded during combat operations. In what zone can the MARCH algorithm be applied according to the TCCC concept?

a. Only in the red zone

b. In the yellow or green zone

c. In the red or green zone

d. Only in the green zone

e. In the red or yellow zone

80. After physical exertion, a 45-year-old patient suddenly developed shortness of breath, tightness in the chest, and exhausting, paroxysmal, poorly productive cough. Objectively, his skin is pale and cyanotic-tinted, exhale is difficult and prolonged, the pulse is rapid, loud dry crackles can be heard at a distance. What pathological condition is this clinical presentation most characteristic of?

a. Bronchial asthma attack

b. Thyrotoxic crisis (Thyroid storm)

c. Acute coronary syndrome

d. Pulmonary edema

e. Supraventricular paroxysmal tachycardia attack

81. A 55-year-old man has suddenly developed intense headache, dizziness, vomiting, and numbness and weakness in the right half of his body. Objectively, he has facial hyperemia and asymmetry of the face. Blood pressure - 170/120 mm Hg. What pathological condition has developed in this man?

a. Neuritis of the facial nerve

b. Acute meningitis

c. Status migrainosus

d. Hypertensive crisis

e. Acute cerebrovascular accident

82. What is the name of the national document that certifies the right to carry out medical activities, if specific requirements are being complied with?

a. Resolution

b. License

c. Order

d. Law

e. Directive

83. The day hospital at a polyclinic can provide medical care for patients who do not require continuous 24-hour monitoring and supervision. What health condition can be an indication for the treatment at the day hospital?

a. Diabetic angiopathy of the legs

b. Active (open) form of tuberculosis

c. Complicated hypertensive crisis

d. -

e. Acute psychosis

84. Cardiac auscultation detects systolic murmur in the patient's apex beat point, which is characteristic of insufficiency of a certain heart valve. What heart valve is it?

- a. -
- b. Pulmonary valve
- c. Tricuspid valve
- d. Mitral valve**
- e. Aortic valve

85. A patient with decompensated chronic heart failure has been prescribed complex treatment, consisting of an ACE inhibitor (enalapril), a diuretic (furosemide), a beta-blocker (bisoprolol), and an aldosterone receptor blocker (spironolactone). Two weeks later, the patient's condition significantly improved: dyspnea and leg edema decreased, but she developed dry, exhausting cough. No clinical manifestations of acute respiratory viral infection were detected. What drug has most likely caused the patient's cough?

- a. Spironolactone
- b. -
- c. Enalapril**
- d. Furosemide
- e. Bisoprolol

86. How many chest compressions must be performed in 1 minute during cardiopulmonary resuscitation in adults?

- a. 60-70
- b. 80-90
- c. 130-140
- d. 70-80
- e. 100-120**

87. What internal variable of an organization determines its division of labor and responsibility for performing specific tasks, which has a direct effect on the efficiency of the production process?

- a. Task setting
- b. Material and technical resources
- c. Organizational structure**
- d. Human resources (personnel)
- e. General objectives

88. A patient has been provisionally diagnosed with shigellosis. What specific method of laboratory diagnostics can be used to confirm this diagnosis?

- a. General urinalysis
- b. Complete blood count
- c. Stool bacteriology**
- d. Blood glucose test
- e. Blood biochemistry test

89. What disability group would be assigned for a patient with severe and persistent functional impairments that significantly limit activities of daily living and make self-care impossible, necessitating constant external care?

- a. Fourth
- b. Second
- c. Third
- d. -
- e. First**

90. A 25-year-old woman has been hospitalized with symptoms of morphine overdose. After intravenous administration of naloxone, her condition significantly improved. What is the mechanism of action of this drug?

- a. Stimulation of benzodiazepine receptors
- b. Dopamine receptor blockade

- c. Stimulation of serotonin receptors
- d. GABA receptor blockade

**e. Opioid receptor blockade**

91. A 33-year-old pregnant woman at week 39 of her pregnancy developed generalized seizures, preceded by intense headache, visual disturbances (visual snow, double vision), pain in the right upper quadrant of the abdomen and in the epigastrium, nausea, and vomiting. Over the course of her pregnancy, the woman presented with increased blood pressure, edema, and proteinuria. What pathological condition has developed in the patient?

- a. Severe preeclampsia
- b. Pulmonary thromboembolism

**c. Eclampsia**

- d. -
- e. Status epilepticus

92. A 46-year-old woman, who complains of dry mouth and fatigability, underwent a glucose tolerance test with the following results: fasting blood glucose level - 6.5 mmol/L, blood glucose level after 2 hours - 8.4 mmol/L. How would you interpret such test results?

- a. Diabetes insipidus
- b. Type 2 diabetes mellitus
- c. Physiological norm

**d. Carbohydrate intolerance**

- e. Type 1 diabetes mellitus

93. A patient at the hospital ward for infectious diseases has been diagnosed with oropharyngeal diphtheria and administered an anti-diphtheria serum for treatment. What is its main mechanism of action?

**a. Neutralization of the toxin**

- b. Stimulation of the immune system
- c. Providing a sedative effect
- d. Stabilization of the hemodynamics
- e. Elimination of the causative agent

94. Two days after receiving a gunshot wound to the forearm, the injured person developed intense unbearable pain, dense and tense edema, and loss of sensation in the hand of the injured arm. What pathological condition has most likely developed in this person?

- a. DIC syndrome
- b. Thrombophlebitis
- c. Prolonged compression syndrome (Crush syndrome)
- d. Muscle contracture

**e. Compartment syndrome**

95. In countries with the developed healthcare system, there is a certain form of social health insurance that is a component of the social insurance system. It is approved by the country's government and carried out in accordance with the procedure established by the country's legislation. What form of social health insurance is it?

**a. State**

**b. Mandatory**

- c. Voluntary
- d. Mixed
- e. Private

96. A baby with signs of prematurity was born at a perinatal center. What scale should be used to determine the gestational age of the baby by assessing the newborn's physical and neuromuscular maturity?

**a. Ballard score**

- b. Apgar score
- c. Glasgow scale

- d. Lawton scale
- e. Bishop score

97. A 44-year-old man injured in a car accident underwent urgent surgery for hemoperitoneum. When a certain internal organ is damaged, the patient's own blood from the abdominal cavity can be used for reinfusion, if the necessary sterility conditions are provided. Name this internal organ.

- a. Stomach
- b. Spleen**
- c. Liver
- d. Pancreas
- e. Small intestine

98. The head manager of a healthcare facility holds a general meeting with the employees, during which the secretary documents the information in writing. What is the name of the document that records the progress of the discussion and the decision-making process?

- a. -
- b. Minutes**
- c. Directive
- d. Instruction
- e. Order

99. A 57-year-old patient complains of pain in the area of his stomach. The pain occurs after eating, mainly in the autumn-spring period. The patient has been provisionally diagnosed with peptic ulcer disease of the stomach. What diagnostic procedure would be most informative for confirming the diagnosis?

- a. Colonoscopy
- b. Fibroesophagogastrroduodenoscopy**
- c. Duodenal sounding
- d. Abdominal ultrasound
- e. Blood biochemistry test

100. A healthy full-term baby developed brick-yellow color of urine on the third day of life (urine leaves reddish spots on the diapers). The child's general condition is not impaired. What transient state of the neonatal period can be characterized by these clinical manifestations?

- a. Uric acid renal infarction**
- b. Transient albuminuria
- c. Erythema toxicum
- d. -
- e. Hormonal effects in newborns

101. A patient with arterial hypertension is scheduled for ophthalmoscopy. Before the procedure, a nurse had instilled a mydriatic agent into his eyes. Ten minutes later, the patient complained of pain in the right temporal region, nausea, and blurred vision. Objectively, the following is observed: blood pressure - 120/80 mm Hg, heart rate - 68/min, respiratory rate - 22/min. What has most likely caused these complaints in the patient?

- a. Anaphylactic shock
- b. Hypertensive crisis
- c. Retinal hemorrhage
- d. Acute iridocyclitis
- e. Angle-closure glaucoma attack**

102. What is the main cause of business conflicts occurring in healthcare institutions?

- a. Imbalanced distribution of material resources
- b. Social instability
- c. Poor management culture**
- d. Shortages in essential goods
- e. Poor working conditions

103. Anthropometric studies reveal that a 3-month-old breastfed baby has an insufficient increase in



the body weight over the course of the last month. During interviewing the child's mother, she notes a decrease in her breast milk output. What procedure should be carried out first to determine the further tactics in this case?

- a. Testing whether tendon reflexes are present and symmetrical
- b. Measuring the body length of the child
- c. Control weighing of the child**
- d. Measuring the circumferences of the head and chest
- e. Measuring the pulse and its characteristics

104. During the assessment of the child's neuropsychological and physical development, the following is observed: the child knows the names of many objects, can point at the named body parts, can say 8-10 words, understanding their meaning (for example, stops doing something, when hears the word "stop"), performs simple tasks at the request of adults, can squat without support, and walks unassisted. What is the approximate age of the child?

- a. 8 months
- b. 12 months**
- c. 9 months
- d. 3 months
- e. 5 months

105. What is the name of the erroneous or inadequate actions of a medical worker that were performed with a preventive, diagnostic, or therapeutic purpose, have caused the development of a disease or a pathological condition in the patient, and are legally classified as an accident?

- a. Medical error
- b. Iatrogeny**
- c. Medical negligence
- d. Oversight
- e. Doctor's error

106. What is the name of the set of measures taken by a healthcare facility with the aim of taking into account the needs of patients, adapting the services to the patient's requirements, promoting healthcare services, and popularizing the services provided by the healthcare facility?

- a. Administrative management
- b. Marketing**
- c. Financial management
- d. Logistics
- e. Human resource management

107. A 6-month-old infant with an acute respiratory viral infection has fever of  $39.6^{\circ}\text{C}$ . What drug is usually used to reduce the body temperature in children of this age?

- a. Furosemide
- b. Paracetamol**
- c. Drotaverine
- d. Acetylsalicylic acid
- e. Loratadine

108. A 57-year-old man complains of constricting retrosternal pain that radiates into his left shoulder. The pain had occurred during physical exertion and did not stop after the patient took nitroglycerin. Objectively, the patient is agitated, his skin and visible mucosa are pale, his heart sounds are weakened and rhythmic, blood pressure - 90/50 mm Hg. ECG shows ST segment above the isoline and coronary Q wave. What pathology is it characteristic of?

- a. Pericarditis
- b. Myocarditis
- c. Endocarditis
- d. Rheumatic heart disease
- e. Myocardial infarction**

109. What factor is a contraindication for in-home treatment?

- a. -
- b. Frequent respiratory diseases
- c. Old age
- d. Disability

**e. Severe course of a disease**

110. In a patient with pneumonia, the body temperature rapidly decreased from  $39.5^{\circ}\text{C}$  to  $37^{\circ}\text{C}$  within a few hours. Objectively, the patient is conscious, lethargic, apathetic, answers questions with effort. The skin and mucosa are pale, the limbs are cold, the breathing is shallow. The patient is covered in cold sticky sweat. Pulse - 98/min, of poor volume. Blood pressure - 80/50 mm Hg. What pathological condition has developed in the patient?

- a. Hypoglycemic coma
- b. Hypertensive crisis

**c. Acute vascular insufficiency**

- d. Acute heart failure
- e. Acute respiratory failure

111. What aid must be provided to a postparturient woman at the third stage of labor, if the placenta did not detach after administration of uterotonics and bleeding continues?

- a. Inspect the birth canal for intactness
- b. Sew up the perineal tears
- c. Monitor the hemorrhage
- d. Prepare the patient for laparotomy

**e. Perform manual detachment and removal of the placenta**

112. What technical regulatory document establishes the requirements for providing medical care to a patient in the case of a specific disease, a certain syndrome, or in a specific situation?

**a. Clinical protocol**

- b. Prescription
- c. Form
- d. Complex standards
- e. Technological standards

113. A 49-year-old patient, who has been working as a synthesis operator at a pharmaceutical factory for 23 years, complains of general weakness, fatigability, dizziness, headache, sleep disturbances, and bleeding gums. Objectively, the patient has petechial rash and isolated hemorrhages on the skin. The pulse is labile, blood pressure - 100/60 mm Hg. The liver protrudes 3 cm from under the edge of the costal arch. Blood test results: hemoglobin - 102 g/L, erythrocytes -  $3.89 \cdot 10^{12}/\text{L}$ , color index - 0.78, leukocytes -  $2.7 \cdot 10^9/\text{L}$ , platelets -  $103 \cdot 10^9/\text{L}$ . What is the most likely cause of the described clinical presentation and laboratory findings?

**a. Acute carbon monoxide intoxication**

**b. Chronic benzene intoxication**

- c. -
- d. Acute benzene intoxication
- e. Chronic manganese intoxication

114. A man has received a gunshot wound to the face. Objectively, he is conscious, there are traumatic injuries to the soft tissues of the oral cavity and to the upper and lower teeth. The patient remains capable of unassisted breathing, but there are signs of upper airway obstruction. What medical tool should be used first in this case, to temporarily ensure airway patency?

- a. Pulse oximeter
- b. Endotracheal tube
- c. Sengstaken-Blakemore tube

**d. Nasopharyngeal airway**

**e. Oropharyngeal airway**

115. What units are organized in outpatient polyclinics or in outpatient departments of healthcare facilities to provide medical aid for patients who do not require 24-hour medical and nursing care?

- a. In-home treatment
- b. Primary healthcare center
- c. Treatment and diagnostics center
- d. Rehabilitation department of a hospital
- e. Day hospital**

116. A 70-year-old patient complains of constricting retrosternal pain that radiates into his left shoulder, arm, and scapula. The pain occurred after a stressful situation. What drug should be administered first, when providing emergency aid for this patient?

- a. Gidazepam
- b. Paracetamol
- c. Drotaverine
- d. Ibuprofen

**e. Nitroglycerin**

117. A cold abscess was detected in a newborn child (age - 1 month), in the area of the upper third of the left shoulder. What violation has occurred during the tuberculosis vaccination, causing this complication as a result?

**a. Method of vaccine administration**

- b. Dose of the immunobiological drug
- c. Inability to maintain aseptic conditions
- d. Date of the vaccination
- e. Choice of the injection site

118. A 20-year-old patient is undergoing cardiopulmonary resuscitation. What would indicate the effectiveness of artificial pulmonary ventilation and closed-chest cardiac massage at the basic life support stage?

**a. Constricted pupils**

- b. Increased cyanosis
- c. Decreased eyelid tone
- d. Acrocyanosis appearing
- e. -

119. A 10-year-old child has a bronchial asthma attack that lasts for 8 hours already. Objectively, the following is observed: cyanosis of the skin and mucosa, facial edema, marked expiratory dyspnea with the involvement of accessory respiratory muscles, and limited chest excursion. The pulse is of poor volume and arrhythmic. The blood pressure is low. Percussion produces a bantbox resonance over the lungs. Auscultation detects the "silent lung" syndrome. Repeated inhalations of beta<sub>2</sub>-agonists (salbutamol) were ineffective. What pathological condition has developed in the child?

- a. Anaphylactic shock
- b. True croup
- c. Laryngeal stenosis
- d. Pulmonary edema

**e. Status asthmaticus**

120. A patient complains of intense pain in the right hypochondrium with radiation into the right scapula. The day before, vomiting occurred, but brought no relief. Objectively, the body temperature is 37.8°C; during palpation the abdomen is moderately distended, tense, and painful in the right hypochondrium. Moderate tension of the abdominal wall muscles is observed in the right hypochondrium. The Ortner's sign is positive. What disease can be characterised by such clinical presentation?

**a. Acute cholecystitis**

- b. Acute appendicitis
- c. Intestinal obstruction
- d. Perforated stomach ulcer
- e. Acute pancreatitis

121. A 2-year-old child, who has been suffering from an acute respiratory viral infection for the last five days, suddenly developed a hoarse voice and rough "barking" cough at night, accompanied by noisy breathing with difficult inhalation. Objectively, the child has tachypnea and cyanosis of the skin. Retraction of the supraclavicular and infraclavicular fossae and intercostal spaces is observed during inhalation. What pathological condition has developed in the child?

- a. Acute obstructive bronchitis
- b. Peritonsillar abscess
- c. Foreign body airway obstruction
- d. Acute stenosing laryngotracheitis**
- e. Bronchial asthma attack

122. The main form of nursing communication is communication between a nurse and a patient, the success of which depends on certain criteria of effective communication. What are the main criteria of interpersonal communication?

- a. Formation, obtaining, and processing of information and development of relationships**
- b. Emergence of communication barriers
- c. Passivity of the communication participants
- d. Incorrectness of the interlocutor's opinion and the proper response to it
- e. Lack of a common communicative space

123. A 62-year-old patient immediately after parenteral administration of a vitamin B felt sudden weakness and dizziness. She developed fever throughout the body, cough, dyspnea, and generalized skin rash. Objectively, her blood pressure is 80/40 mm Hg, the pulse is weak and rapid, the heart sounds are muffled, the breathing is shallow and rapid. The patient has history of diabetes mellitus and arterial hypertension. What pathological condition has most likely developed in the patient?

- a. Pneumothorax
- b. Hypoglycemia
- c. Anaphylaxis**
- d. Hypertensive crisis
- e. Hyperglycemia

124. An infant with pneumonia developed signs of pulmonary edema against the background of excessive infusion therapy. What position should the child be placed into, when providing emergency pre-doctor aid?

- a. Lying on the right side
- b. Lying on the left side
- c. Sitting, semi-sitting**
- d. Horizontal with slightly elevated legs
- e. Lying on the stomach

125. A woman at week 30 of her pregnancy presents with the following changes in her blood: hemolysis of erythrocytes, increased activity of aminotransferases, decreased levels of fibrinogen, and thrombocytopenia. What pathological condition are such laboratory findings characteristic of?

- a. Combined preeclampsia
- b. HELLP syndrome**
- c. Eclampsia
- d. Severe preeclampsia
- e. Moderate preeclampsia

126. A nurse needs to assess the patient's rate of adaptation to physical exertion and determine the time required for recovery afterwards. What test should be performed for this purpose?

- a. -
- b. Clinostatic test
- c. Stange test
- d. Genchi test
- e. Martine-Kushelevsky test**

127. What congenital heart defect can be characterized by pulmonary artery stenosis, ventricular

septal defect, dextroposition of the aorta, and right ventricular hypertrophy?

- a. Coarctation of the aorta
- b. Ebstein anomaly
- c. Dextrocardia
- d. Patent ductus arteriosus
- e. Tetralogy of Fallot**

128. A 65-year-old patient took one tablet of nitroglycerin sublingually during an angina pectoris attack. What is the most common side effect of this drug?

- a. Paresthesia
- b. Nystagmus
- c. Agranulocytosis
- d. Headache**
- e. Hearing impairment

129. A 25-year-old woman has scalded her left hand with boiling water one hour ago. Objectively, the skin of the scalded area is hyperemic and edematous, there are blisters filled with a clear fluid. What should be done first at the prehospital stage when providing emergency aid for this patient?

- a. Apply an ointment bandage to the affected area
- b. Pop the blisters and apply a dry bandage to the affected area
- c. Treat the scalded area with an alcohol-containing solution
- d. Cool down the scalded area with cool running water**
- e. Apply an antiseptic bandage to the affected area

130. After sudden stress, a woman with diffuse toxic goiter developed the following symptoms: acute psychomotor agitation, excessive sweating, tachycardia (pulse - 194/min, arrhythmic), headache, hyperthermia (body temperature -  $41.3^{\circ}\text{C}$ ), vomiting. Objectively, the patient lies in a frog leg position, her skin is hyperemic, her face is mask-like with an expression of horror, the mucosa are dry, blood pressure - 210/100 mm Hg. What complication of the underlying disease has developed in the patient?

- a. Hypertensive crisis
- b. Anaphylaxis
- c. Hypothyroid coma
- d. Thyrotoxic crisis**
- e. Hypoglycemic coma

131. A teenage girl, while in a poorly ventilated crowded room, initially experienced general weakness, nausea, dizziness, visual snow, and tinnitus, after which she fainted. What would be the priority actions when providing emergency aid for this patient?

- a. -
- b. Give her easily digestible carbohydrates (sugar water)
- c. Begin cardiopulmonary resuscitation at the ratio of 30 chest compressions followed by 2 breaths
- d. Administer adrenaline (epinephrine) intravenously
- e. Provide fresh air, place her in a horizontal position with slightly raised legs**

132. A woman, who has rheumatoid arthritis and has been taking glucocorticoids for a year, developed signs of osteoporosis. What instrumental test would be informative for determining the bone density in this case?

- a. Thermography
- b. Arthropneumography
- c. Densitometry**
- d. Tomography
- e. Angiography

133. There are many effective methods for managing conflict situations at the workplace. What management method includes clear explanation of the work requirements to prevent and resolve organizational conflicts?

- a. Interpersonal

**b. Structural**

- c. -
- d. Individual
- e. Intrapersonal

134. A nurse at the cardiology department of a hospital needs to measure the patient's pulse. When can the most accurate reading of this parameter be obtained?

- a. At lunchtime, after eating
- b. In the morning, right after breakfast
- c. In the afternoon, after physical exertion
- d. In the morning, immediately after waking up, on an empty stomach**
- e. In the evening, before bed, after dinner

135. What drug should be used first, when providing emergency aid for a patient who has developed a bronchial asthma attack?

- a. Azithromycin
- b. Drotaverine
- c. Dexamethasone
- d. Furosemide
- e. Salbutamol**

136. After physical overexertion, a 49-year-old woman experienced sudden palpitations, chest discomfort, dizziness, and a feeling of lack of air. Objectively, her pulse is 140/min, rhythmic and pendulum-like, her blood pressure is 100/60 mm Hg. An attack of paroxysmal tachycardia was diagnosed. What specific technique that reflexively increases the tone of the vagus nerve should be used, when providing pre-hospital aid to this patient?

- a. Electric defibrillation
- b. Valsalva maneuver**
- c. Catheter ablation
- d. Transesophageal electrical stimulation
- e. Defibrillation

137. A patient with pulmonary tuberculosis suddenly developed tightness in the chest and paroxysmal cough after physical exertion. During the coughing, the patient started producing foamy blood (bright red and slow to coagulate) from his mouth and nose. Objectively, the patient's general condition is severe, the skin is pale, respiratory rate - 43/min, blood pressure - 95/60 mm Hg, pulse - 115/min, thready. What complication of the underlying disease has developed in the patient?

- a. Gastric bleeding
- b. Spontaneous pneumothorax
- c. Nosebleed
- d. Pulmonary bleeding**
- e. Open pneumothorax

138. The head nurse of a clinic was discussing the stages of the organizational life cycle at a meeting with her subordinate nurses who have completed advanced training courses. Name the stages of the organizational life cycle.

- a. Founding, growth and development, stabilization, cessation of existence or renewal**
- b. Growth and development, stabilization, cessation of existence or renewal
- c. Development, stabilization, cessation of existence or renewal
- d. Founding, stabilization, cessation of existence or renewal
- e. Founding, birth, growth, cessation of existence or renewal

139. The head nurse has designed the measures that the healthcare facility must implement over the year and specified their deadlines and responsible executors. What organization management function has been performed by the head nurse?

- a. Strategic management
- b. Functional blocking
- c. Organizational analysis

**d. Operational planning**

e. Service blocking

140. What form of medical insurance under the Law of Ukraine "On Insurance" exists in Ukraine and is financed from the funds of natural persons (individual insurance) and legal entities (collective insurance) according to the insurance rules independently established by the insurer?

a. Mandatory

**b. Voluntary**

c. Non-commercial

d. Special

e. General

141. A nurse administered a 1% solution of morphine hydrochloride intramuscularly to a 69-year-old patient, as prescribed by the doctor. What parameter must be monitored in the patient after administering this drug?

a. Skin color

b. Body temperature

**c. Respiratory rate**

d. Heart rate

e. Blood glucose

142. A 28-year-old patient has the following symptoms: general weakness, night sweats, a wave-like increase in the body temperature, weight loss, and long-term lymphadenopathy (enlargement of the submandibular lymph nodes to 1-1.5 cm in diameter) of unknown etiology. Blood test results: leukocytes -  $32 \cdot 10^9/L$ , ESR - 38 mm/hour. What diagnostic method should be used in this case?

a. CT scan of the paranasal sinuses

b. Thyroid ultrasound

c. Sternal puncture

d. Brain MRI

**e. Lymph node biopsy**

143. A 35-year-old patient has been hospitalized into the intensive care unit due to acute poisoning with an unknown substance. What laboratory findings in urinalysis may indicate development of acute renal failure?

a. -

b. Oliguria and hypersthenuria

**c. Oliguria and hyposthenuria**

d. Polyuria and hypersthenuria

e. Normal diuresis and normal urine specific gravity

144. What is the name of the set of measures aimed at destroying pathogenic microorganisms in environmental objects?

a. Asepsis

b. Vaccination

c. Deratization

d. Disinsection

**e. Disinfection**

145. A 42-year-old man has received a penetrating chest wound. Objectively, his skin and mucosa are cyanotic, rapid shallow breathing is observed, foamy blood flows from the chest wound, and a hissing sound can be heard during inhalation (the sound of air being sucked in through the wound). What emergency care should be provided for this patient first?

a. Apply a soft cervical collar (Shantz collar)

b. Apply a cold compress to the chest

**c. Apply an occlusive dressing to the wound**

d. Place the patient in the stable side position

e. Perform electrical defibrillation

146. The senior nurse at the nephrology department of a hospital informs her subordinates about

their main duties, necessary professional skills, and organizational aspects of their work. What legal organizational document determines the distribution of duties and authority among the medical workers at a healthcare facility?

a. Job description

- b. -
- c. Decision
- d. Directive
- e. Contract

147. Specify the localization of pain in the typical course of appendicitis.

a. Right iliac region

- b. Left hypochondrium
- c. Left iliac region
- d. -
- e. Right hypochondrium

148. A patient, who has been working as a driller in a mine for a long time, complains of discomfort in his hands. What examination method can assess the pain sensitivity in his hands?

a. Dynamometry

b. Algesimetry

- c. Pallestesiometry
- d. Cold stimulus
- e. Capillaroscopy

149. A 3-year-old child has developed acute stenosing laryngotracheitis. Objectively, cyanosis of the nasolabial triangle and stridorous breathing are observed, pulse - 105/min, blood pressure - 100/60 mm Hg, saturation - 92%. At what stage can stridorous breathing be detected, when the patient's condition is being assessed using the ABCDE scale?

a. B

- b. D
- c. C
- d. A
- e. E

150. A 45-year-old patient has bronchial asthma. What method of functional diagnostics can be used to monitor peak forced expiratory flow rate to assess the effectiveness of treatment and prevent exacerbations of bronchial asthma?

a. Pneumotachometry

b. -

c. Peak flow measurement

- d. Pulse oximetry
- e. Spirometry