

Sample Examination and Answer Sheet

1. An example of a drug that should not be taken with Coumadin would be:
 - a. aspirin
 - b. alcohol
 - c. acetaminophen
 - d. penicillin
2. The system of measurement in which liquid is measured in drams is the:
 - a. metric system
 - b. apothecary system
 - c. avoirdupois system
 - d. household system
3. A pharmacy receives a shipment of drug product that costs \$50 per case of 20 tubes. The price markup is 200%. The selling price per tube is:
 - a. \$5
 - b. \$3
 - c. \$2.50
 - d. \$7.50
4. Which of the following drugs causes photosensitivity?
 - a. ibuprofen
 - b. carbamazepine
 - c. tetracycline
 - d. both b and c
5. You receive an order for Amoxil 200 mg PO qid for 10 days. Your supply is a suspension of 50 mg/2 mL. The quantity dispensed is:
 - a. 10 mL
 - b. 25 mL
 - c. 280 mL
 - d. 320 mL



6. The list of drugs that are stocked by the pharmacy and have been decided to be the most efficacious and cost-efficient is called the:
 - a. drug list
 - b. therapeutic compendium
 - c. formulary
 - d. inventory
7. The SIG on a prescription reads “i po ac, hs.” The drug:
 - a. should be taken with food
 - b. may cause drowsiness
 - c. should be taken on an empty stomach
 - d. may cause diarrhea
8. Which of the following drugs should not be stored at 5°C?
 - a. Compazine suppositories
 - b. amoxicillin suspension
 - c. mannitol solution
 - d. Phenergan suppositories
9. Which of the following must be on an order for Lasix tablets when it is presented to the pharmacy?
 - a. date of birth of the patient
 - b. address of the patient
 - c. drug strength
 - d. allergies
10. An order carries the following SIG: ii gtt au prn. The proper auxiliary label to affix to the labeled container would read:
 - a. take with food
 - b. for the ear
 - c. for the eye
 - d. may cause drowsiness
11. Which of the following drugs is a benzodiazepine?
 - a. phenobarbital
 - b. Phenergan
 - c. lorazepam
 - d. phenytoin
12. Which of the following is used for congestive heart failure?
 - a. Lanoxin
 - b. Lomotil
 - c. Keflex
 - d. Isuprel
13. The appearance of a white, fluffy precipitate in a 500 mL bag of D₅W would indicate that the product:
 - a. has been exposed to cold
 - b. has been exposed to bright light
 - c. is contaminated and should be discarded
 - d. should be shaken to disperse the precipitate before dispensing



14. Personnel handling cisplatin should:
 - a. wear protective clothing and gloves
 - b. work in a well-ventilated area
 - c. shake the product well before drawing the dose
 - d. keep the product out of bright light
15. Which of the following drugs does not require special handling and/or the wearing of protective clothing?
 - a. Methotrexate injection
 - b. Adriamycin injection
 - c. mannitol injection
 - d. vincristine injection
16. An order is for phenobarbital gr iss IV. Available stock is 200 mg/3 mL. The amount dispensed should be:
 - a. 2.5 mL
 - b. 1.35 mL
 - c. 0.67 mL
 - d. 1.8 mL
17. An order is for lidocaine 30 mg SC. Available stock is a 1% solution. The amount dispensed is:
 - a. 3 mL
 - b. 2 mL
 - c. 1.5 mL
 - d. 0.5 mL
18. 500 mcL of U-100 insulin is equal to:
 - a. 5 units
 - b. 50 units
 - c. 0.5 units
 - d. cannot be determined without more information
19. An order is for Synthroid 50 mcg #30, SIG: i qd. The pharmacy has 0.025 mg tablets in stock. The number of tablets dispensed is:
 - a. 15
 - b. 150
 - c. 60
 - d. 6
20. The smallest amount that can be accurately measured in a medication dosage cup is:
 - a. 5 mL
 - b. 2 mL
 - c. 4 mL
 - d. 10 mL
21. Which of the following is not commercially available?
 - a. Tegretol 200 mg tablets
 - b. Valium 5 mg tablets
 - c. Ritalin 10 mg tablets
 - d. Paxil 5 mg tablets



22. Which of the following dosage forms is not commercially available?
 - a. amoxicillin tablets
 - b. heparin tablets
 - c. warfarin tablets
 - d. diazepam injection
23. Which of the following is not available by injection?
 - a. Zantac
 - b. Micronase
 - c. Medrol
 - d. Lasix
24. Which of the following is available as a sublingual spray?
 - a. amyl nitrate
 - b. Proventil
 - c. Nitrostat
 - d. Synthroid
25. Containers used for packaging of parenteral drugs must be:
 - a. sterile
 - b. made of plastic
 - c. pyrogen-free
 - d. both a and c
26. Which of the following might be contraindicated in a person with diabetes?
 - a. Procardia
 - b. Indocin
 - c. Isuprel
 - d. Micronase
27. Which of the following must be prepared using protective clothing and gloves?
 - a. cyclobenzaprine
 - b. cyclophosphamide
 - c. cyclizine
 - d. cycloserine
28. A 1 L IV bag contains 1,000,000 units of penicillin G. The flow rate of the solution is 25 gtt/min, and the infusion set is labeled 15 gtt/mL. The dose that the patient receives per hour is:
 - a. 100 units
 - b. 1,500 units
 - c. 100,000 units
 - d. 250,000 units
29. One L of a 10% solution of drug is flowing at a rate of 50 mL/hr. After 2 hours, how much drug has the patient received?
 - a. 0.5 g
 - b. 1 g
 - c. 5 g
 - d. 10 g



30. A procedure for compounding cortisone cream specifies that 5 g of cortisone is needed to make 1 kg of cream. What percentage of cortisone will be in the cream?
- 5%
 - 2%
 - 0.5%
 - 1%
31. Which of the following would be contraindicated with vitamin K therapy?
- Micronase
 - Coumadin
 - Heparin
 - Trental
32. You have a solution of heparin that is 100,000 units/L, with an infusion apparatus labeled 60 gtt/mL. The flow rate required to deliver a dose of 20 units/min would be:
- 3 gtt/min
 - 12 gtt/min
 - 15 gtt/min
 - 20 gtt/min
33. With which of the following drugs is it mandatory that a package insert be included with the product?
- Vicodin
 - Roxicet
 - Premarin
 - Decadron
34. Which of the following is not a Schedule II drug?
- Roxicet
 - Valium
 - Demerol
 - Morphine
35. Which of the following is an oral anticoagulant?
- streptokinase
 - heparin
 - warfarin
 - urokinase
36. You prepare a 250 mL bag of NS with 1 g of Kefzol. The patient is to receive a 250 mg dose per hour. The infusion set is calibrated at 10 gtt/mL. The flow rate needed to deliver the dose is:
- 1 gtt/min
 - 10 gtt/min
 - 20 gtt/min
 - 15 gtt/min
37. Which of the following would not require potassium supplementation?
- Lasix
 - Diuril
 - Mevacor
 - Aquatensen



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38. An order is for Isuprel 200 mcg IM. Available stock is a 1:5,000 dilution. You dispense:
- 0.5 mL
 - 1.5 mL
 - 1 mL
 - 10 mL
39. An order is for 40 mEq of potassium to be administered in 40 mL of orange juice. Your stock of potassium chloride is 20 mEq/5 mL. The amount of solution to be added to the juice would be:
- 50 mL
 - 1 mL
 - 10 mL
 - 11.1 mL
40. An order is for Lasix 40 mg bid po for 10 days. You prepare a single unit dose of Lasix solution (10 mg/mL). The amount dispensed would be:
- 10 mL
 - 18 mL
 - 4 mL
 - 8 mL
41. An order is for amoxicillin 500 mg po. The drug available is in a suspension of 125 mg/5 mL. The amount of suspension dispensed would be:
- 25 mL
 - 10 mL
 - 20 mL
 - 5 mL
42. A patient is prescribed Medrol 0.5 mg po q6h. The pharmacy has 2 mg scored tablets in stock. A unit dose of medication would be:
- $\frac{1}{4}$ tablet
 - $\frac{1}{2}$ tablet
 - one tablet
 - the order cannot be filled
43. The pharmacy receives bottles of amoxicillin labeled 125 mg/5 mL. There is 500 mg of drug in each vial. The amount of water added to each vial should be:
- 10 mL
 - 5 mL
 - 20 mL
 - 15 mL
44. Which of the following is an antihistamine?
- Adrucil
 - Allegra
 - AeroBid
 - Aldomet



45. A prescription is for Zantac 150 mg #60. The instructions read “i po bid.” The total daily dose prescribed is:
 - a. 150 mg
 - b. 300 mg
 - c. 450 mg
 - d. cannot be determined
46. Drugs classified as having a high abuse potential and little or no therapeutic benefit are designated as:
 - a. Schedule II
 - b. Schedule V
 - c. Schedule I
 - d. Narcotics
47. Which of the following is commercially available?
 - a. Zantac 10 mg/mL
 - b. Prilosec 25 mg/5 mL
 - c. Prozac 50 mg tablet
 - d. ibuprofen 800 mg tablet
48. The risk of contamination or infection is greatly reduced by:
 - a. wearing a mask and gloves
 - b. wearing clean clothing
 - c. thorough handwashing and cleaning of equipment before and after use
 - d. wearing a lab coat
49. An example of a semisolid dosage form would be a:
 - a. cream
 - b. pulvule
 - c. capsule containing liquid drug
 - d. powder for reconstitution
50. A patient is allergic to sulfur. Which of the following drugs in his patient profile should be called to the attention of the pharmacist?
 - a. Pen V-K
 - b. Bactrim
 - c. Toprol
 - d. BuSpar
51. A child who weighs 40 kg is prescribed a 10 mg/kg dose of Amoxil. The pharmacy has a 50 mg/mL suspension of Amoxil in stock. The amount dispensed for one dose would be:
 - a. 12 mL
 - b. 10 mL
 - c. 8 mL
 - d. 4 mL



52. A child is 10 years old and weighs 80 pounds. The adult dose of phenobarbital is 30 mg. Using Clark's Rule, the child's dose would be:
- 3 mg
 - 16 mg
 - 25 mg
 - 20 mg
53. The child in Problem 52 receives cyclizine. The adult dose of cyclizine is 50 mg. According to Young's Rule, the child's dose would be:
- 29.4 mg
 - 26.7 mg
 - 22.7 mg
 - 18.8 mg
54. A procedure for making cortisone cream states that the cream contains 200 g of mrystic acid per 1,000 g of cream made. The percentage of mrystic acid is:
- 2%
 - 5%
 - 20%
 - 0.5%
55. A patient receives 10 mL of a 20% solution of drug. The drug dose is:
- 20 g
 - 2 g
 - 20 mg
 - 200 mg
56. The recommended child's dose of Keflex is 25 mg/kg/day in two divided doses. The correct dose for a 66-lb child would be:
- 375 mg
 - 825 mg
 - 412 mg
 - 750 mg
57. A child with a BSA of 0.84 m² is prescribed digoxin 0.75 mg/m². The amount of drug dispensed is:
- 630 mcg
 - 0.89 mg
 - 1.1 mg
 - 0.75 mg
58. Which of the following is a local anesthetic?
- Lincocin
 - BuSpar
 - Xylocaine
 - Minipress



59. The preparation of a specific dosage form for a patient with specific needs is called:
- bulk compounding
 - bulk manufacturing
 - extemporaneous compounding
 - product formulation
60. A SIG that reads “i gtt ad am & hs” instructs the patient to place the medication in:
- the right eye
 - the right ear
 - both ears
 - the right arm
61. The encryption of information into a scannable form is called:
- programming
 - bar coding
 - optic laser coding
 - data storage
62. An example of a drug that is highly light-sensitive is:
- verapamil
 - nitroglycerin
 - cefamandole
 - penicillin
63. Which of the following is a transdermal patch formulation?
- MacroBid
 - Levophed
 - Nitro-Dur
 - Micronase
64. Which of the following types of tablets require very careful handling?
- tablets for oral use
 - enteric-coated tablets
 - sublingual tablets
 - vaginal tablets
65. A buccal dosage form would be placed:
- in the nostril
 - in the mouth
 - against the cheek
 - under the tongue
66. An ophthalmic preparation would be placed in the:
- ear
 - nose
 - eye
 - mouth



67. Parenteral preparations must be prepared:
- quickly
 - using aseptic technique
 - under sanitary conditions
 - in the absence of light
68. One Liter of saline is running through an infusion apparatus delivering 15 gtt/mL. The infusion will go for 5 hours. The flow rate in gtt/min will be:
- 100
 - 150
 - 50
 - 95
69. The instructions for storage of a drug product state that the product should be stored at 5–15°C. The product should be stored:
- on the pharmacy shelf
 - in the freezer
 - in the refrigerator
 - in a warm room
70. Lanoxin is a proprietary name for:
- nitroglycerin
 - amyl nitrate
 - digoxin
 - digitoxin
71. Which of the following is available as an inhaler for use by asthmatics?
- Calan
 - Lopid
 - Dyazide
 - Proventil
72. A bottle of Excedrin PM is simply labeled “Aspirin.” This would be illegal under the:
- Consolidated Omnibus Budget Reconciliation Act
 - Occupational Safety and Health Act
 - Food, Drug, and Cosmetic Act
 - Durham and Humphrey Amendments
73. The patient package insert is:
- required to be given directly to the patient or caregiver with every supply of a drug preparation containing estrogen
 - required to be delivered to the patient at the time of the first dose of a drug containing estrogen
 - written in scientific terms to best present studies done and facilitate patient comprehension
 - both a and b are correct
74. Mr. Dan Hill has the following drugs in his patient profile:
- | | | |
|------------|-----------|---------|
| • Diuril | • Tagamet | • Xanax |
| • Tegretol | • Lanoxin | |



He decides to stop taking his medications and “be free.” His wife calls 911 two days later, as he is having a grand mal seizure. The deficient drug responsible was most likely:

- a. Xanax
- b. Tegretol
- c. Diuril
- d. Lanoxin

75. Which of the following may be used as an antiepileptic agent and an antiarrhythmic agent?

- a. lamotrigine
- b. Paxil
- c. phenytoin
- d. Cardioquin

76. A patient is taking aspirin. He is prescribed the following drugs. Which drug(s) would require that he change his pain reliever to acetaminophen?

- a. Coumadin
- b. Nicardipine
- c. Ticlid
- d. both a and c

77. A diabetic patient is prescribed the following drugs:

- Theo-Dur
- Naprosyn
- Beclomethasone
- Bumex

Which of these should be called to the attention of the pharmacist?

- a. Theo-Dur
- b. Bumex
- c. Naprosyn
- d. Beclomethasone

78. Which of the following may cause smooth muscle contraction and possibly premature labor?

- a. Carafate
- b. Misoprostol
- c. Nexium
- d. Citrucel

79. Which of the following would interfere with the effects of an estrogen-based contraceptive?

- a. liotrix
- b. Zithromax
- c. Ogden
- d. Estrovis

80. A patient arrives at the pharmacy window with a prescription for Lomotil. The prescriber is Dr. Tom Nuzecki DDS. You should:

- a. fill the prescription with a smile
- b. call the prescriber
- c. refuse to fill the prescription, as it is not valid
- d. consult the *United States Pharmacopoeia*



81. A patient is to receive atropine for a diagnostic procedure. You look in his patient profile and see the following drugs being administered:
- Tegretol • nifedipine
 - Tofranil • Tagamet
- Which drug should you call to the attention of the pharmacist?
- a. Tegretol
 - b. nifedipine
 - c. Tofranil
 - d. the Tagamet/nifedipine combination
82. A patient has a prescription for hydromorphone, written for 10 tablets. The pharmacy has only five in stock. You have the tablets on order for next week. You should:
- a. fill the prescription for five and mark the other five on the form as a refill
 - b. fill the prescription for five tablets and tell the patient to come in next week for the rest
 - c. refuse to fill the prescription
 - d. tell the patient that he can only have five unless he goes to another pharmacy
83. A patient has asthma. Which of the following drugs might be contraindicated?
- a. acetaminophen
 - b. Vicodin
 - c. Roxicet
 - d. Tylenol
84. A patient is prescribed Aldomet. Which of the following drugs in his patient profile should be called to the attention of the pharmacist?
- a. Vicodin
 - b. Lasix
 - c. Imipramine
 - d. Nifedipine
85. A NitroDur patch:
- a. would aid in the treatment of high blood pressure
 - b. would show decreased effects with time (tolerance)
 - c. contains isosorbide mononitrate
 - d. has a duration of action of five days
86. Prandin does not cause hypoglycemia, as it:
- a. does not affect blood sugar
 - b. does not work unless sufficient glucose is present in the blood
 - c. affects mainly lipids
 - d. affects the breakdown and absorption of sugars, not sugar utilization
87. A mildly diabetic patient experiences hypoglycemia. Which of the following drugs is responsible?
- a. glyburide
 - b. miglitol
 - c. Micronase
 - d. both a and c



88. Which of the following is a barbiturate?
- a. alprazolam
 - b. phenobarbital
 - c. buspirone
 - d. carbamazepine
89. A patient who is taking cyanocobalamin is taking:
- a. vitamin A
 - b. vitamin B₆
 - c. vitamin C
 - d. vitamin B₁₂
90. Which of the following is regulated by the FDA?
- a. the purity and efficacy of drug products
 - b. the safety of drug products
 - c. the standards of manufacture of drug products
 - d. all of the above