

**Pharmacy Technician Training Program**

**MID-TERM EXAM**

**VERSION A - Questions**

This is your mid-term exam for this course. Please put away all your books, notes, and any other items away from your desk. Do not give the appearance that you are cheating or attempting to cheat. Please keep your eyes on your own paper. On your Scan-Tron please indicate which version of the exam you are taking (e.g. Version A or Version B). Please hand this paper in with your answer sheet. Please watch the time and note your time limit for this exam indicated by your instructor.

1. The new federal law creates a sales limit of \_\_\_\_\_ grams per day and \_\_\_\_\_ grams per month of any pseudoephedrine containing products.
  - a. 2.7 and 7
  - b. 3.2 and 7
  - c. 3.6 and 9
  - d. 4.2 and 9
2. This schedule of drugs has a high potential for abuse and no currently accepted medical use in the United States, and is therefore not found in pharmacy departments.
  - a. Schedule I
  - b. Schedule II
  - c. Schedule III
  - d. Schedule IV
3. Which of the following is a valid DEA number for Dr. Johnson?
  - a. AJ1625671
  - b. BJ1325679
  - c. CJ4375689
  - d. DJ9837561
4. What is the Latin abbreviation for "both eyes"?
  - a. od
  - b. ou
  - c. os
  - d. ob
5. All of the following are examples of technician duties EXCEPT:
  - a. Gather information needed to prepare prescriptions
  - b. Place completed prescriptions in the pick-up area
  - c. Enter data into the computer
  - d. Receive oral prescriptions from prescribers
6. What law requires that counseling be offered to all patients?
  - a. HIPPA
  - b. OBRA '90
  - c. JCAHO
  - d. DUR

7. These types of tablets contain a mixture of acids and sodium bicarbonate plus active ingredients and should be dissolved in a glass of water which patients then drink. They should NOT be chewed or swallowed.

- Sublingual tablets
- Buccal tablets
- Effervescent tablets
- Enteric-coated tablets

8. Which of the following is NOT a topical dosage form?

- Ointment
- Lotion
- Troche
- Collodion

9. Nitroglycerin sublingual tablets must be dispensed in the original, unopened container

- True
- False

10. Pharmacies usually prefer to dispense generics because:

- They save patients money
- They help keep prescription prices competitive
- They are sometimes required by third-party insurance programs
- All of the above

11. What does NDC stand for?

- National Drug Code
- New Drug Class
- National Distribution Center
- Native Drug Compound

12. The last 2 digits of the NDC number identify

- The manufacturer
- The name, strength, and dosage form of the medication
- The package size
- The expiration month

13. The NDC number should always contain 11 digits in a “five digit-four digit-two digit” pattern, and can be supplemented with leading zeroes as needed.

- True
- False

14. The FDA requires all of the following information to be listed on the Stock Bottle Label EXCEPT:

- The medication’s strength
- The lot number
- The expiration date
- Therapeutic alternative

15. When a drug product is found to have a strong chance of serious adverse effects or death to the patient, the FDA can recommend a \_\_\_\_\_ recall.

- Class I
- Class II
- Class III
- Class IV

16. Some medications that contain alcohol, such as cough medication, can safely be taken by pregnant women because the alcohol content is not very high.

- True
- False

17. Which of the following is the most appropriate translation of the following Signa: ii caps po bid

- Take 2 capsules by mouth twice daily
- Take 2 tablets by mouth twice daily
- Take 2 capsules by mouth three times daily
- Take 2 capsules daily

18. Which of the following is the most appropriate translation of the following Signa: ii gtt os tid

- Instill 2 drops into the right eye three times daily
- Instill 2 drops into the left eye three times daily
- Instill 2 drops into both eyes three times daily
- Instill 2 drops in the left ear three times daily

19. Which of the following is the most appropriate translation of the following Signa: i tsp po q6h prn

- Take 1 teaspoonful by mouth every 6 hours as directed
- Take 1 teaspoonful by mouth 6 times a day
- Take 1 tablespoonful by mouth every 6 hours as needed
- Take 1 teaspoonful by mouth every 6 hours as needed

20. Which of the following is the most appropriate translation of the following Signa: i tab po qhs

- Take 1 tablet by mouth every night at bedtime
- Take 1 tablet in the evening
- Take 1 tablet by mouth after meals
- Take 1 tablet by mouth before meals

21. To what drug class does Nexium belong to?

- Proton Pump Inhibitor
- H2 Blocker
- NSAID
- SSRI

22. Which of the following is an ACE inhibitor?

- Lopressor
- Diovan
- Zestril
- Lasix

23. Which of the following is a drug used for anti-coagulation?

- a. Coumadin
- b. Warfarin
- c. Aricept
- d. Both a and b

24. Which of the following is a Schedule II medication?

- a. Methadone
- b. Motrin
- c. Vicodin
- d. Ativan

25. A prescription Signa reads: i tab po bid prn #30, what day supply should you assign?

- a. 12
- b. 13
- c. 14
- d. 15

26. A prescription Signa reads: i tab po q4-6h prn #30, what day supply should you assign?

- a. 3
- b. 4
- c. 5
- d. 6

27. How many milligrams are in 1 grain?

- a. 30
- b. 40
- c. 50
- d. 60

28. A prescription for 6 ounces of solution is to be filled, how many milliliters should you dispense?

- a. 120ml
- b. 180ml
- c. 240ml
- d. 300ml

29. If a solution contains 5 grams of dextrose in 100 ml of water, how many grams of dextrose are in 500ml of the same solution?

- a. 20
- b. 25
- c. 30
- d. 35

30. The appropriate word choice for a medication to be taken buccally would be:

- a. Place under the tongue
- b. Place in the cheek
- c. Swallow whole
- d. Apply as directed

31. 1 tablespoon is the same as:

- a. 5ml
- b. 10ml
- c. 15ml
- d. 20ml

32. What is PHI?

- a. Protected Health Information
- b. Personal Health Information
- c. Pharmacy Help Initiative
- d. Private Health Insurance

33. PHI can be properly destroyed by:

- a. Placing used vials in specially designated containers to be incinerated
- b. "Blacking out" PHI with permanent black marker
- c. Giving the old vial back to the patient
- d. All of the above are viable options depending on your pharmacy's practices

34. Hospital orders contain which of the following information?

- a. Laboratory orders
- b. Medications
- c. Dietary restrictions
- d. All of the above

35. By law, which of the following tasks cannot be done by a technician?

- a. Filling chemotherapy orders
- b. Ordering pharmacy stock
- c. Final checking and signing off of orders
- d. Filling controlled substances for schedule III to V medications

36. Technicians can answer which of the following questions over the phone:

- a. Generic or trade name of drug
- b. Whether or not the drug is in stock
- c. The price of the medication
- d. All of the above

37. Preservatives are often added to medications to \_\_\_\_\_

- a. Increase their shelf life and decrease the possibility of contamination
- b. Add color and texture to the medication
- c. Increase the cost of the medication
- d. Cut down the cost of having to make large amounts of the drug

38. The organ in the body responsible for most of the metabolism of a drug is the \_\_\_\_\_

- a. Kidney
- b. Liver
- c. Stomach
- d. Lungs

39. What does JCAHO stand for?

- a. Joint Commission on Accreditation of Healthcare Organizations
- b. Joint Collaboration of American Healthcare Organizations
- c. Joint Centers for Ambulatory Health Offices
- d. Joint Commission on Academic Health Operations

40. All of the following are types of insurance except for:

- a. HMO
- b. PPO
- c. FDA
- d. Medicaid

41. The proper storage of medications is the responsibility of \_\_\_\_\_

- a. The inventory technician
- b. The pharmacist
- c. The technician
- d. Everyone working in the pharmacy

42. Medicare is a government run program that covers all of the following EXCEPT:

- a. Senior citizens
- b. Children
- c. Patients using dialysis
- d. Patients who are disabled

43. HIPAA stands for:

- a. Healthy Infants Parents and Animals Act
- b. Health Insurance Portability and Accountability Act
- c. Health Insurance Professional and Accountability Act
- d. Health Insurance Patient Privacy Act

44. Medications for the ear can also be used for the eye

- a. True
- b. False

45. Some medications require tests to determine whether the liver is clearing the medications appropriately

- a. True
- b. False

46. A physician orders Ticar 500 mg IM bid. The reconstituted strength of the medication available is 2g/5.2mL. What is the correct volume of medication to be administered to the patient in a dose?

- a. 0.7 mL
- b. 1.3 mL
- c. 1.6 mL
- d. 2.6 mL

47. A medication cannot be frozen. If the refrigerator at your pharmacy is set to 5° C. What is the temperature in Fahrenheit? Will the medication freeze?

- a. 41° F, no
- b. 41° F, yes
- c. 65° F, no
- d. 65° F, yes

48. A physician tells a patient to drink at least 40 extra ounces of water a day. How many additional cups of water would the patient need to drink to follow the physician's order?

- a. 2
- b. 3
- c. 4
- d. 5

49. An order is written for cimetidine 0.075g. How many mg is this?

- a. 0.75 mg
- b. 7.5 mg
- c. 75 mg
- d. 750 mg

50. A chemotherapeutic medication is ordered by weight in kilograms. The patient weighs 180 pounds, what is their weight in kilograms?

- a. 75.3 kg
- b. 81.8 kg
- c. 86.2 kg
- d. 90 kg

51. Dr. Smith orders Motrin 800 mg tid x 30 d. You only have 400 mg strength tablets in stock. How many tablets need to be dispensed for the entire prescription?

- a. 60
- b. 90
- c. 180
- d. 220

52. Dr. King wants Sarah to take prednisone 5 mg in descending doses beginning with 8 tablets on the first day, 7 tablets on the second day, and decreasing one tablet daily until only one tablet is taken for 2 days. How many tablets should be dispensed?

- a. 32
- b. 35
- c. 37
- d. 39

53. What is the generic name for Keflex?

- a. Cephalexin
- b. Cefazolin
- c. Cefuroxime
- d. Ceftazidime

54. What is the brand name of Metoprolol tartrate?

- a. Toprol
- b. Toprol XL
- c. Lopressor
- d. Lopressor XL

55. A physician orders ampicillin 100mg/kg/day in four divided doses for an infant who weighs 12 pounds. The available medication is 125 mg/5 mL. How many mg of medication should be given as a single dose?

- a. 100 mg
- b. 136 mg
- c. 150 mg
- d. 175 mg

56. Using the same information as above, what volume of medication should be given to this child as a dose?

- a. 2.5 mL
- b. 3 mL
- c. 4.5 mL
- d. 5.4 mL

57. A doctor orders amoxicillin 500 mg po tid, until gone #30. What days supply would you assign?

- a. 5
- b. 10
- c. 15
- d. 20

58. When in doubt as to the directions on a prescription, it is best to:

- a. Tell the patient you will need a new prescription
- b. Try your best to decipher the order
- c. Ask the pharmacist for help
- d. Put it to the side and worry about it later

59. Which drug agency is responsible for regulating medical devices?

- a. FDA
- b. SPCA
- c. DEA
- d. OSHA

60. Where is insulin stocked in the pharmacy?

- a. Alphabetically by brand name
- b. Alphabetically by generic name
- c. In the refrigerator
- d. In the C II cabinet

61. The amount of hydrocortisone powder needed to prepare 8 oz of 2% hydrocortisone cream is \_\_\_\_\_?

- a. 4.8 g
- b. 0.48 g
- c. 0.48 mg
- d. 4.8 mg

62. KCl is an abbreviation for:

- a. Keratine chloride
- b. Potassium chloride
- c. Sodium chloride
- d. Calcium carbonate

63. When choosing between state and federal requirements, which takes precedence?

- a. The state
- b. The federal government
- c. The institution you work for
- d. The most stringent

64. How often do certified pharmacy technicians need to renew their certification?

- a. Every year
- b. Every 2 years
- c. Every 3 years
- d. Never

65. Which question can a pharmacy technician answer?

- a. When will the shortage of terazosin be over?
- b. How much ibuprofen should I give my 2 month old infant?
- c. Can acetaminophen make me dizzy?
- d. Does verapamil interact with grapefruit juice?

66. The abbreviation for “at bedtime” is:

- a. hs
- b. pm
- c. ac
- d. pc

67. The DEA Form 41 is required when controlled substances are expired and need to be disposed of

- a. True
- b. False

68. What is 1 kg equal to?

- a. 1,000 mg
- b. 2.2 pounds
- c. 10,000 mcg
- d. All of the above

69. Which abbreviation stands for “ointment”?

- a. ung
- b. OTC
- c. oz
- d. int

70. What volume would deliver 50 mg if the solution contains 12.5mg/mL?

- a. 2 mL
- b. 3 mL
- c. 4 mL
- d. 5 mL

71. How many 10 mL doses can be packaged from a pint of medication? Pick the closest answer.

- a. 28
- b. 38
- c. 48
- d. 58

72. It is crucial that you keep personal or health information about patients strictly confidential at all times. Discussing a patient's health information with anyone other than the patient, the patient's caregiver, or the pharmacist you work with is a serious violation of ethics and can expose the pharmacy to a lawsuit.

- True
- False

73. A contraindication is:

- A description of conditions that the medication may be used to treat
- Circumstances under which the medication should not be used
- Descriptions of extreme side effects, given certain conditions and special circumstances
- The active ingredient, chemical name, and formula of the product

74. Which is the best way to write "2 u. tid"?

- Take 2 u three times a day
- Take 2.0 units three times a day
- Take 2 units three times a day
- Take 2.0 u three times daily

75. State pharmacy laws cannot differ from federal pharmacy laws.

- True
- False

76. The following is a valid DEA# for Dr. Alan Johnson: AJ6337287

- True
- False

77. What is APAP the abbreviation for?

- Aspirin
- Aspartame
- Acetaminophen
- As soon as possible

78. A DDS may NOT prescribe which of the following medications?

- Azithromycin
- Vicodin
- Xanax
- Zoloft

79. Which is the most appropriate translation of the Signa below?

ii po qhs

- Two tabs every hour.
- Take two tablets at bedtime.
- Take two tablets by mouth every day.
- Take two tablets by mouth every day at bedtime.

80. Which is the most appropriate translation of the Signa below?

- i supp pr q4-6h prn
- a. Unwrap and insert 1 suppository into rectum every 4-6 hours as needed.
- b. Insert 1 suppository into rectum every 4-6 hours as needed.
- c. Unwrap and insert 1 suppository as requested every 4-6 hours as needed.
- d. Unwrap and insert 1 suppository every 4-6 hours as needed.

81. Medwatch is the FDA program that encourages \_\_\_\_\_ to report adverse events? Please fill in the blank

- a. Patients
- b. Healthcare providers
- c. Hospitals
- d. Insurance companies

82. In which controlled substance schedule is Tylenol with Codeine classified?

- a. C-II
- b. C-III
- c. C-IV
- d. C-V

83. All controlled substances require a prescription to obtain.

- a. True
- b. False

84. When written on a prescription blank, the letters "os" stand for:

- a. Right ear
- b. Left eye
- c. Ounces
- d. In both ears

85. How many milligrams of NaCl are needed to make 75 ml of water isotonic (0.9% NaCl)?

- a. 0.675 mg
- b. 6.75 mg
- c. 675 mg
- d. 67.5 mg

86. How many mL of 5% Lactose must be mixed with of 25% Lactose to get 1000 mL of 15% Lactose?

- a. 500 mL 5% Lactose and 500 mL 25% Lactose
- b. 667 mL 5% Lactose and 333 mL 25% Lactose
- c. 333 mL 5% Lactose and 667 mL 25% Lactose
- d. 400 mL 5% Lactose and 600 mL 25% Lactose

87. At what rate (in mL/min) should an IV bag run if the order is for 1 L every 8 hours?

- a. 3 ml/min
- b. 2 ml/min
- c. 4 ml/min
- d. 5 ml/min

88. How much Dextrose (gm) is in a 1 L bag of Dextrose 10%?

- a. 1 gm
- b. 10 gm
- c. 100 gm
- d. 1000 gm

89. What time interval will be needed for the administration of 1000 mL D5W if an infusion set delivers 10 drops/mL and is set for 15 drops/min?

- a. 11 hours
- b. 24 hours
- c. 12 hours
- d. 6 hours

90. Which of the following is NOT a role of a pharmacy technician?

- a. Obtain pertinent patient information
- b. Retrieve medications from the shelves
- c. Refill patient medications
- d. Counsel patients on adverse effects of their medications.

91. What types of patient information should be collected when a new patient presents a prescription?

- a. Address
- b. Date of birth
- c. Drug allergies
- d. All of the above

92. A controlled environment for compounding sterile products is called a what?

- a. Compounding Room
- b. Clean Room
- c. Controlled Room
- d. Sterile Room

93. Which of the following is NOT a common way medications are organized in a pharmacy?

- a. Alphabetically
- b. Separated by route (i.e. oral, inhalation, eye drops)
- c. Bottle size/shape
- d. Refrigerated

94. What does the Combat Methamphetamine Act of 2005 mandate?

- a. Daily sales of phenylephrine will be limited
- b. Monthly sales of pseudoephedrine will be limited
- c. Yearly sales of pseudoephedrine will be limited
- d. Lifetime sales of pseudoephedrine will be limited

95. Controlled-Release products:

- a. Can be crushed or chewed
- b. Allows patients to start and stop when they receive the medication
- c. Are controlled-substances
- d. Continually release the medication over time

96. Reading an NDC Number Left to Right, what does each set of numbers stand for?

- a. Manufacturer – Product - Product Size
- b. Manufacturer – Product Size – product
- c. Product – Product Size – Manufacturer
- d. Product size – Product – Manufacturer

97. All medications must be dispensed in child-proof containers.

- a. True
- b. False

98. Which of the following are dosage forms of medications?

- a. Chewing gum
- b. Sucker (Lolli-Pop)
- c. Transdermal Patch
- d. All of the above

99. Enteric Coated tablets are just another name for controlled-release tablets.

- a. True
- b. False

100. What information will you typically not find on a stock medication bottle label?

- a. Indication
- b. Strength
- c. Dosage form
- d. Expiration date

101. What class of controlled substances are not allowed to have refills?

- a. C-III
- b. C-II
- c. C-IV
- d. C-V

102. Sublingually stands for what way to take a medication?

- a. Into the rectum
- b. Under the arm pit
- c. Under the tongue
- d. Behind the ear

103. Which of the follow is a commonly available drug reference that compares generic bioequivalence?

- a. Red Book
- b. Orange Book
- c. Trissel's
- d. Facts and Comparisons

104. C-II controlled substances require a special, government issued, order form.

- a. True
- b. False

105. C-III controlled substances require a special, government issued, order form.

- True
- False

106. You have a prescription for Atrovent® Inhaler and the directions read 2 puffs every 6 hours. Each inhaler contains 200 inhalations. What day supply would you enter?

- 22
- 23
- 25
- 27

107. 2 tbs. contains how many mL's?

- 5 mL
- 15 mL
- 30 mL
- 50 mL

108. If there are 15 grams of dextrose in 500 mL of solution, how many grams of dextrose are in 1500 mL of solution?

- 15 grams
- 30 grams
- 45 grams
- 60 grams

109. You need to determine the price of 30 tablets of Drug Y, which comes in a stock bottle of 90 tablets at \$95.50 per bottle. What is the price of the 15 tablets?

- \$ 15.91
- \$ 31.83
- \$ 25.67
- \$ 35.81

110. How many mg of sodium chloride are needed to prepare 2 L of 1:20,000 solutions?

- 100mg
- 10 mg
- 1 mg
- 0.1 mg

111. An IV solution is set to run at 3 gtt/min. It contains 450 mg in a total of 100 mL. How many milligrams will the patient receive by the time the IV bag runs out?

- 45 mg
- 450 mg
- 58 mg
- 300 mg

112. A pharmacy purchases drug X for \$25 and sells it for \$55. What is the % mark-up of the cost?

- 55%
- 225%
- 125%
- 120%

113. A prescription is called in for Augmentin Suspension 875 mg every 12 hours x 10 days. How much of 600mg/5mL. . What bottle of Augmentin Suspension should you prepare?

- a. 50 mL
- b. 75 mL
- c. 125 mL
- d. 200 mL

114. A 1 Liter IV bag is running a rate of 83 mL/hr. If the IV was started at 6 am, at what time will the IV bag run out?

- a. 2200 hours
- b. 1800 hours
- c. 1400 hours
- d. 1200 hours

115. The Latin abbreviation "pc" stands for:

- a. Before meals
- b. Right ear
- c. After meals
- d. As needed

116. The label on a bottle of Detrol LA says it's expiration date is 4/11. On what day does this drug expire?

- a. April 2011
- b. April 1, 2011
- c. April 30, 2011
- d. April 31, 2011

117. What dose should a 165 lb. patient receive if an order is written for 5 mg/kg/dose?

- a. 375 mg
- b. 412 mg
- c. 585 mg
- d. 825 mg

118. Which classification of drug recall occurs if the patient experiences a reversible side effect?

- a. Class I
- b. Class II
- c. Class III
- d. Class IV

119. Which of the following is NOT an automated dispensing system?

- a. Robot-Rx
- b. SureMed
- c. Pyxis
- d. TJC

120. Which dosage form is defined as a clear, sweetened, flavored hydroalcoholic, containing water and alcohol, that may be medicated or not?

- a. Elixir
- b. Emulsion
- c. Enema
- d. Syrup

121. How much dextrose is in 1 L of D5W?

- a. 50 mg
- b. 50 mcg
- c. 50 g
- d. 5 g

122. Which dosage form is an aqueous solution with sugar?

- a. Emulsion
- b. Solution
- c. Suspension
- d. Syrup

123. How many days would 40 capsules last if the directions were "i cap qid ac and hs"

- a. 4 days
- b. 8 days
- c. 10 days
- d. None of the above

124. What is the generic name for Lipitor?

- a. Atorvastatin
- b. Fluvastatin
- c. Pravastatin
- d. Simvastatin

125. What temperature is considered room temperature?

- a. 8°C
- b. 8° - 15°C
- c. 15° - 30°C
- d. 30° - 40°C