

PTCE PRACTICE EXAM

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1. What is the generic name for Calan®?
 - a. nifedipine
 - b. verapamil
 - c. diltiazem
 - d. amlodipine
2. Medications for ophthalmic administration are usually available in
 - a. sterile hypotonic drops or sterile ointment.
 - b. sterile hypertonic drops or sterile ointment.
 - c. hypotonic solution or hypotonic suspension.
 - d. sterile isotonic drops or sterile ointment.
3. Which medical abbreviation is most acceptable?
 - a. qid
 - b. qhs
 - c. OD
 - d. IN
4. You receive a prescription for Mary Jones and note there are two patients with that name in your computer system. To prevent errors, the best course of action is
 - a. process the prescription for the patient who gets the most prescriptions filled at your pharmacy.
 - b. ask a colleague which Mary Jones you should choose.
 - c. verify the birthdate of the patient.
 - d. process the prescription for the patient with the fewest allergies.
5. An excellent resource for a list of commonly confused drug names is
 - a. ISMP www.ismp.org.
 - b. APhA www.pharmacist.com.
 - c. USP www.usp.org.
 - d. NABP www.nabpnet.org.
6. Biological safety cabinets protect personnel and the environment from
 - a. light.
 - b. temperature.
 - c. contamination.
 - d. freezing.
7. _____ is a pharmacy technician responsibility.
 - a. Checking that the patient knows how to take the medication
 - b. Checking that the patient understands the expected benefits of taking the medication
 - c. Counseling patients
 - d. Quickly locating the correct medication for dispensing
8. The form number for ordering Schedule II drugs is
 - a. DEA Form 121.
 - b. DEA Form 200.
 - c. DEA Form 222.
 - d. DEA Form 240.
9. Patient package inserts (PPIs) for oral contraceptive refills are required to be provided to patients
 - a. only for new prescriptions.
 - b. for new prescription and refills if 30 days have lapsed since the patient received a PPI.
 - c. every six months.
 - d. once a year.
10. Tall Man lettering is used
 - a. for high-alert medications.
 - b. for "do not crush" medications.
 - c. to differentiate products with look-alike names.
 - d. only for neonatal medications.

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11. The smallest gelatin capsule used for extemporaneous compounding is size
 - a. 10.
 - b. 8.
 - c. 5.
 - d. 000.
12. Coring can occur when
 - a. the needle is longer than the ampule.
 - b. the patient has an allergy to latex.
 - c. the needle is not correctly removed from the vial.
 - d. the needle is not correctly inserted into the vial.
13. Hydrochlorothiazide is used as
 - a. an analgesic.
 - b. an anti-inflammatory agent.
 - c. a sedative.
 - d. a diuretic.
14. The infusion rate of an IV is over 12 hours. The total exact volume is 800 mL. What would be the infusion rate in mLs per minute?
 - a. 0.56 mL/minute
 - b. 1.11 mL/minute
 - c. 2.7 mL/minute
 - d. none of the above
15. You have a 70% solution of dextrose. How many grams of dextrose is in 200 mL of this solution?
 - a. 700 grams
 - b. 460 grams
 - c. 140 grams
 - d. 120 grams
16. The standard pediatric dose for cefazolin is 20 mg/kg/day. The order is written for 150 mg TID. The infant weighs 8 lb. This dose is
 - a. too high.
 - b. too low.
 - c. within guidelines.
 - d. none of the above.
17. Copy 3 of DEA Form 222 is kept by the
 - a. wholesaler.
 - b. DEA.
 - c. state board.
 - d. pharmacy.
18. An IV order calls for the addition of 45 mEq of CaCO_3 (calcium carbonate). You have a 25 mL vial of CaCO_3 4.4mEq/mL. How many mL of this concentrate do you need to add to this IV?
 - a. 5.6 mL
 - b. 8.4 mL
 - c. 10.2 mL
 - d. 12.8 mL
19. Which of the following is true about high-alert medications?
 - a. High-alert medications are medications that are known to cause significant harm to the patient if an error is made.
 - b. High-alert medications are medications that are expensive.
 - c. High-alert medications are medications that only come in generic.
 - d. High-alert medications are always multisource.
20. Which of the following is true about medication guides?
 - a. Medication guides are part of the FDA-approved labeling.
 - b. Manufacturers are required to provide medication guides for all FDA-approved drugs.
 - c. Medication guides are written by the dispensing pharmacist.
 - d. Medication guides are written by the technician who fills the prescription.
21. Which of the following is a high-alert medication?
 - a. digoxin
 - b. nadolol
 - c. bacitracin
 - d. hydrocortisone

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22. Federal law requires an exact inventory must be kept for
- phenobarbital.
 - alprazolam.
 - diazepam.
 - hydrocodone.
23. Safety Data Sheets (SDS)
- provide protocols for fire hazards in the pharmacy setting.
 - provide safety codes by OSHA in the storage of inventory.
 - provide information concerning hazardous substances.
 - none of the above
24. How much diluent do you need to add to 4 gm of powder to get a concentration of 500 mg/mL?
- 0.8 mL
 - 8 mL
 - 1.0 mL
 - 10 mL
25. Bedside Medication Verification (BMV) in hospitals utilizes
- nurse's bar-coded name badge, patient's bar-coded arm band, and medication bar code.
 - patient's bar-coded arm band and medication bar code only.
 - nurse's bar-coded name badge and medication bar code only.
 - nurse's bar-coded name badge and patient's bar-coded arm band only.
26. A doctor has prescribed a 4 mg/kg dose for a 2 kg infant. What is the safest way to express the dose?
- 8 mg
 - 8.0 mg
 - .008 g
 - .0080 g
27. The last set of digits of the NDC are indicative of
- the manufacturer.
 - product identification.
 - package size.
 - none of the above.
28. The approximate size container for the dispensing of 180 mL of liquid medication would be?
- 2 ounces
 - 4 ounces
 - 6 ounces
 - 8 ounces
29. A patient asks whether he/she can take a certain medication with another one? As a pharmacy technician what should you do?
- Inform the patient that you see no problem.
 - Provide the patient with a drug insert.
 - Request the patient see the pharmacist for a consult.
 - Try to sell the patient some Tylenol®.
30. The doctor writes: ii gtts as bid. What does this mean?
- two drops in the left eye twice a day
 - two drops in the right eye twice a day
 - two drops in the left ear twice daily.
 - two drops in the right ear twice a day
31. Which property makes a drug a high-alert medication?
- High risk of serious harm if there is an error
 - High risk of physical dependence if used chronically
 - Increased chance of mix-ups due to other look-alike/sound-alike meds
 - High risk of psychological addiction if used chronically

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32. Which organization provides a list of error-prone abbreviations?
 - a. ASHP
 - b. OSHA
 - c. ISMP
 - d. FDA
33. To help prevent errors, which drugs should not be placed next to each other?
 - a. Hydroxyzine and hydralazine
 - b. Bactroban[®] ointment and hydrocortisone cream
 - c. Timolol ophthalmic and Alphagan[®] ophthalmic
 - d. Crestor[®] and Dilantin[®]
34. Companies that specialize in returns of expired and discontinued drugs to the manufacturer are known as
 - a. reverse distributors.
 - b. pharmacy benefit managers.
 - c. mail order pharmacy.
 - d. mass merchandiser pharmacy.
35. Of the following, which one deals with the issue of safety caps on prescription bottles?
 - a. The Controlled Substance Act
 - b. The Poison Prevention Act
 - c. Hazardous Substance Act
 - d. Federal Food and Cosmetic Act
36. Most drugs are kept at room temperature between
 - a. 33°–45°F.
 - b. 33°–45°C.
 - c. 59°–86°C.
 - d. 59°–86°F.
37. The appearance of crystals in mannitol injection would indicate that the product
 - a. was exposed to cold.
 - b. has settled during shipment.
 - c. contains impurities and should be returned.
 - d. was formulated using sterile saline.
38. The rules for coordination of benefits ensure that the benefit coverage for a claim does not exceed _____ of the total cost.
 - a. 25%
 - b. 33%
 - c. 50%
 - d. 100%
39. Dextrose 25% 1,000 mL is ordered. You have only dextrose 70% solution available. How much of the dextrose 70% solution and sterile water will you use to fill this order?
 - a. 250 mL dextrose 70% and 750 mL sterile water
 - b. 357 mL dextrose 70% and 643 mL sterile water
 - c. 424 mL dextrose 70% and 576 mL sterile water
 - d. None of the above
40. The Occupational, Safety & Health Administration (OSHA) requires pharmacies to have Safety Data Sheets (SDS) for
 - a. all drugs in the pharmacy inventory.
 - b. all materials stored in the pharmacy refrigerator.
 - c. each hazardous chemical used in the pharmacy.
 - d. all controlled substances in the pharmacy inventory.

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41. Of the following group names, which one would be used for cough?
- Anthelmintics
 - Antitussives
 - Antihistamines
 - Anticholinergics
42. Tobrex® ophthalmic ung refers to
- an ointment used for the eye.
 - a solution used for the eye.
 - a topical ointment for external use only.
 - an ointment used for the ear.
43. Suspending or thickening agents are added to suspensions to thicken the suspending medium and the sedimentation rate. Which of the following is not a suspending agent?
- Carboxymethylcellulose
 - Tragacanth
 - Acacia
 - Bentonite
44. Oral polio virus vaccine (Poliovax®) should be stored in a temperature not to exceed 46 degrees Fahrenheit. What is this temperature in Centigrade? Use this formula: Centigrade = $5/9 (F^{\circ} - 32^{\circ})$.
- 6°C
 - 8°C
 - 10°C
 - 12°C
45. You receive a prescription for amoxicillin 125 mg TID for 10 days. How many mL of amoxicillin 250 mg/5mL do you need to fill this prescription to last the full 10 days?
- 20 mL
 - 40 mL
 - 75 mL
 - 100 mL
46. Medicare Part D covers
- prescription drugs.
 - doctors' services.
 - inpatient hospital expenses.
 - hospice expenses.
47. You receive a prescription for sertraline (Zoloft®) qd x 30 days. What is sertraline?
- Antihypertensive
 - Anticonvulsant
 - Antidepressant
 - Antianginal
48. All aseptic manipulations in the laminar airflow workstation should be performed at least
- four inches within the workstation.
 - six inches within the workstation.
 - eight inches within the workstation.
 - twelve inches within the workstation.
49. Which auxiliary label would be used for a prescription for tetracycline 250 mg capsules?
- May Cause Drowsiness
 - Avoid Aspirin
 - Avoid Dairy Products and Antacids
 - Take with Food
50. Generic drugs are usually in tier
- 1.
 - 2.
 - 3.
 - 4.
51. Which pair of drug names provides an example of Tall Man Lettering?
- amoxicillin and cefalexin
 - DOBUTamine and DOPamine
 - ibuprofen and naproxen
 - codeine and hydrocodone

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52. If the manufacturer's expiration date for a drug is 12/21, the drug is considered acceptable to dispense until which date?
 - a. 12/01/21
 - b. 12/31/21
 - c. 11/30/21
 - d. 1/01/21
53. HMOs, POSs, and PPOs are examples of
 - a. MAC.
 - b. co-insurance.
 - c. managed care programs.
 - d. co-pays.
54. The laminar airflow workstation (LAFW) should be left operating continuously. If it is turned off, it should not be used until it has been running for at least
 - a. 10 minutes.
 - b. 30 minutes.
 - c. 45 minutes.
 - d. 60 minutes.
55. Which auxiliary label would you use for this particular sig: ii gtts AU bid?
 - a. Take with meals
 - b. For the ear
 - c. Avoid sunlight
 - d. For the eye
56. A dose is written for 10 mg/kg every eight hours for one day. The adult to take this medication weighs 145 pounds. How much drug will be needed to fill this order?
 - a. 1,530 mg
 - b. 1,688 mg
 - c. 1,978 mg
 - d. 2,508 mg
57. How much medication would be needed for the following order?
prednisone 10 mg, one qid x 4 days, one tid x 2 days, one bid x 1 day, then stop
 - a. 16
 - b. 20
 - c. 24
 - d. 26
58. Benzethidine is in DEA Schedule I, meaning that benzethidine
 - a. has a currently accepted medical use in the United States with severe restrictions.
 - b. can only be handled by the pharmacist.
 - c. has no currently accepted medical use in the world.
 - d. has no currently accepted medical use in the United States.
59. A prescription is written for doxycycline 100 mg daily for 2 weeks. How many 100 mg capsules are needed to fill the prescription?
 - a. 7
 - b. 10
 - c. 14
 - d. 30
60. What dose of medication is needed for a 70 kg patient if the dose is 5 mg/kg?
 - a. 3.5 g
 - b. 35 kg
 - c. 350 mg
 - d. 700 mg
61. The first line of defense against infection/contamination of an IV product is
 - a. antibiotics.
 - b. antiseptics.
 - c. disinfectants.
 - d. handwashing.

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62. HIPAA requires that
- all Medicaid patients are offered counseling by a pharmacist.
 - all patients receive counseling by a pharmacist.
 - all patients are offered counseling by a pharmacist.
 - privacy rules are observed for PHI.
63. Which of the following medications must be administered in a glass IV container?
- Aminophylline
 - Dopamine
 - Nitroglycerin
 - Potassium
64. The two parts of the syringe that should not be touched are
- the tip and needle.
 - the collar and barrel.
 - the tip and plunger.
 - the collar and plunger.
65. How many doses are taken in a day if the directions on a prescription are 1 cap t.i.d.?
- 2
 - 3
 - 4
 - 6
66. The first five digits of the National Drug Code (NDC) number identifies the
- product.
 - manufacturer.
 - units.
 - type of packaging.
67. How many mg are taken in a day by a 70 kg patient if the dose of medication is 1 mg/kg t.i.d.?
- 70 mg
 - 140 mg
 - 210 mg
 - 280 mg.
68. A procedure to gain third-party coverage for a drug that is not automatically covered by a third-party plan.
- coordination of benefits
 - prior authorization
 - deductible
 - co-insurance
69. What should the last digit be of this DEA number? AB431762 ____
- 1
 - 3
 - 5
 - 7
70. Aminosyn® is an amino acid often used in TPN orders to provide protein for cellular repair and growth. A physician writes an order for Aminosyn® 2.5% 500 mL. You have only Aminosyn® 8.5% 500 mL. How do you prepare this order using a sterile evacuated container?
- Add 320 mL of Aminosyn® 8.5% and qs with sterile water to 500 mL.
 - Add 147 mL of Aminosyn® 8.5% and qs with sterile water to 500 mL.
 - Add 124 mL of Aminosyn® 8.5% and qs with sterile water to 500 mL.
 - Add 74 mL of Aminosyn® 8.5% and qs with sterile water to 500 mL.
71. You receive a prescription for #6 azithromycin 250 mg with the following directions: ii tab stat then i tab daily. How many days will this prescription last?
- 4
 - 5
 - 6
 - 10

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72. Hard copies of order reports
 - a. are kept for an established amount of time for business and legal reasons.
 - b. are only needed if there is a computer failure.
 - c. are only needed in the event of a power failure.
 - d. are no longer needed since everything is computerized.
73. The type of formulary that allows the pharmacy to obtain all medications that are prescribed is a(an)
 - a. international formulary.
 - b. closed formulary.
 - c. wholesaler formulary.
 - d. open formulary.
74. Zantac®, Axid®, and Pepcid® are H₂ blockers. What are these drugs used for?
 - a. As an antihistamine to alleviate runny nose
 - b. As a decongestant to unclog nasal passages
 - c. To inhibit stomach acid secretion
 - d. As an antacid in that it neutralizes stomach acid
75. A _____ is an inventory system in which the item is deducted from inventory as it is sold or dispensed.
 - a. reorder point system
 - b. point-of-sale system
 - c. turnover system
 - d. automated system
76. Of the following drug recalls, which one is the most important in that all parties involved in the dispensing of a prescription (doctor, pharmacy, and patient) must be notified due to the drugs potential for serious harm?
 - a. Class I Recall
 - b. Class II Recall
 - c. Class III Recall
 - d. Class IV Recall
77. The pharmacist should be alerted if a patient is allergic to codeine and prescribed
 - a. alprazolam.
 - b. Tylenol #3®.
 - c. methylphenidate.
 - d. phenobarbital.
78. A prescription for amoxicillin 250 mg #30 has a usual and customary price of \$8.49. The acquisition cost of amoxicillin 250 mg #30 is \$2.02. What is the gross profit?
 - a. \$2.02
 - b. \$6.47
 - c. 50%
 - d. 1/3
79. A senior citizen is paying for a prescription for penicillin VK 250 mg #30. The usual and customary price is \$8.49. However this patient qualifies for a 10% discount. How much will the patient pay?
 - a. \$8.49
 - b. \$6.99
 - c. \$8.39
 - d. \$7.64
80. A medication used to reduce a fever is called an
 - a. antipyretic.
 - b. antitussive.
 - c. antiemetic.
 - d. anthelmintic.

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81. A prescription is written for dicyclomine syrup 10 mg/5 mL 1 teaspoonful h.s. + 1 refill. The insurance plan has a 34-day supply limitation. How many mL can be dispensed using the insurance plan guidelines?
- 120 mL
 - 170 mL
 - 240 mL
 - 360 mL
82. A prescription is written for Humulin® N U-100 insulin 10 mL, 40 units daily. What is the days supply?
- 25
 - 34
 - 21
 - 28
83. A prescription is written for Tetracycline HCl suspension 125 mg/5 mL compounded from capsules and a mixture of Ora-Plus® 50% and Ora-Sweet® 50%. How many capsules of Tetracycline 250 mg are needed to prepare 50 mL of this suspension?
- 5
 - 10
 - 15
 - 20
84. How many units of insulin does a 1/3 mL insulin syringe hold?
- 0.3
 - 25
 - 30
 - 50
85. Nurses track medication administration on a(an)
- STAT.
 - MAR.
 - IVP.
 - IVPB.
86. When entering a new prescription into the pharmacy computer, the technician must enter the following information:
- The prescription number
 - The directions for use
 - The DEA number of the wholesaler
 - The date the bottle was opened
87. Alprozolam is a
- narcotic.
 - barbiturate.
 - benzodiazepine.
 - stimulant.
88. When entering a prescription for amoxicillin into the pharmacy computer system, the system flags that the patient has an allergy to penicillin. What should be done?
- continue filling the prescription since amoxicillin is not the same penicillin
 - involve the pharmacist in verifying the allergy and the physician should be contacted
 - give the prescription back to the patient
 - direct the patient to another pharmacy
89. Which of the following medications is an antidiarrheal?
- Propranolol
 - Famotidine
 - Methylphenidate
 - Loperamide
90. If a medication is to be taken a.c., it should be taken
- in the morning.
 - around the clock.
 - after meals.
 - before meals.