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Rajasthan Pharmacist

Previous Year Paper

15 Jun, 2012



Previous Year Papers

Pharmacist Recruitment Exam – 2012

(Rajasthan, Conducted by RUHS, Jaipur)

Exam date : 15.06.2012

Test slot : 3

1. Choose the correct solvents for coating materials
 - (a) Glycerin
 - (b) Propylene glycol
 - (c) Water
 - (d) Acetone
2. Buffering agent used for parenteral preparation is
 - (a) Sodium metabolite
 - (b) Sorbitol
 - (c) Carbolic acid
 - (d) Benzyl alcohol
3. Choose the correct excipient for enhancing the solubility in tablet manufacturer
 - (a) Lactose
 - (b) Talc
 - (c) Microcrystalline cellulose
 - (d) PEG
4. One of the units used for expressing pressure in Torr and is equal to
 - (a) Guass
 - (b) Psi
 - (c) cm of Hg
 - (d) mm of Hg
5. In the process of sugar coating of tablets the colorants are added in one of the following steps
 - (a) Syrup coating
 - (b) Seal coating
 - (c) Sub coating
 - (d) Polishing
6. The shell of soft gelatin capsule may be elastic or plastic like, by the addition of
 - (a) Povidone
 - (b) HPMC
 - (c) PEG
 - (d) Sorbitol
7. One of the materials listed below is commonly used in film coating of tablets
 - (a) Acacia
 - (b) HPMC
 - (c) Bees wax
 - (d) Simple syrup
8. As per G.M.P. permitted limit of solid contents in water for injection is
 - (a) 100 ppM
 - (b) 1.0 ppM

(c) 0.1 ppM (d) 10 ppM

9. Nujol is
(a) Hexachlorobutadiene
(c) Perfluorokerosene
(b) Mineral oil
(d) Flurolube

10. Which of the following is a microsomal enzyme inducer?
(a) Indomethacin
(c) Tolbutamide
(b) Clofibrate
(d) Glutethamide

11. Fiducial limit is a term used in
(a) Microbiological assay
(c) Chemical assay
(b) Biologically assay
(d) Instrumental methods of assay

12. Phenothiazine are metabolized
(a) In the hepatic microsomal system by hydroxylation followed by conjugation with glucuronic acid
(b) In the liver by oxidation
(c) In the hepatic microsomal system by reduction
(d) In the hepatic microsomal system by oxidation followed by conjugation with glycine

13. Benzodiazepines potentiate
(a) The binding of protein to nervous tissue
(b) The binding of GABA to liver
(c) The binding of GABA to receptors
(d) The binding of GABA to carbohydrates

14. Benzalkonium chloride is a germicidal surfactant which is rendered inactive in the presence of
(a) Organic acid (b) Cationic surfactants
(c) Soaps (d) Inorganic salts

15. Which constituents of Gugulipid is responsible for hypolipidemic activity
(a) Gums (b) Gugguisterones E and Z
(c) Gugguisterol I and II (d) All of the above

16. Which one of the following is S-glycoside
(a) Digoxin (b) Sennoside A
(c) Aloin (d) Sinigrin

17. Which of the following is true about microscopy of *Rauwolfia tetraphylla*?
(a) Absence of sclereids (b) Non-stratified
(c) Larger xylem vessels

(d) All cells are lignified as well as suberized

18. Ergot gives a blue color with alkali due to the presence of

(a) Tryptophan residues (b) Indole ring
(c) Ergotoxine (d) Lysergic acid

19. Ergotine nucleus is derived from

(a) Ornithine and phenylalanine
(b) Tryptophan and phenylalanine
(c) Tryptophan and mevalonate
(d) 5-Hydroxy tryptamine and phenylalanine

20. Eserine alkaloids consists of which heterocyclic rings fused together ?

(a) Indole and pyrrole
(b) Indolidine and pyridine
(c) Indoline and pyrrolidine
(d) Indolidine and piperidine

21. True statement regarding nitric oxide is

(a) NO synthesized from arginine
(b) NO produce spontaneously from NO_2
(c) NO cause vasoconstriction
(d) NO released from mitochondria

22. Glucose can be synthesized from all of the following except

(a) Acetoacetate (b) Lactic acid
(c) Glycerol (d) Amino acid

23. Gout is disorder of

(a) Protein metabolism (b) Pyrimidine metabolism
(c) Oxalate metabolism (d) Purine metabolism

24. Most common cause of aortic aneurysm is

(a) Syphilis (b) Marfan's
(c) Atherosclerosis (d) Congenital

25. Hemorrhagic infarct may be seen in

(a) Brain (b) Spleen
(c) Lung (d) Heart

26. The commonest histological types of lung carcinoma in India are

(a) Squamus cell CA (b) Adene carcinoma
(c) Small cell CA (d) Large cell CA

27. The pathological appearance in pseudo membrane colitis of

(a) Proteus (b) Facial streptococci
(c) Staphylococci (d) E. coli

38. Principal structural component of the cell wall in the bacteria is made up of

(a) Complex polysaccharides (b) Simple protein
(c) Glycoprotein (d) Peptidoglycan

39. Which of the following are simple RNA viruses except

(a) Rotavirus (b) Influenza virus
(c) Rabies virus (d) Poliovirus

40. Adjuvant is a substance which

(a) Enhance antibody actions
(b) Enhance adherence of antibody
(c) Enhance immunogenicity
(d) Enhance antibody efficacy

41. Which of the following is used as preservative in ophthalmic preparation

(a) Chlorocresol (b) Phenol
(c) Benzoic acid (d) Benzalkonium chloride

42. Which of the following is used as local anaesthetic in the formulation of parenteral products

(a) Acetic acid (b) Ethyl alcohol
(c) Benzyl alcohol (d) Sorbitol

43. Commonly used antioxidant for the oil system is

(a) Thioglycol (b) Ascorbic acid
(c) Sodium metabisulphite (d) Butylated hydroxytoluene

44. Half life equation for first order reaction is

(a) $T_{1/2} = a/2k$ (b) $T_{1/2} = 0.693/k$
(c) $T_{1/2} = 1/2a^2k$ (d) $T_{1/2} = 1/ak$

45. Isotonic solution is

(a) 0.1 % NaCl (b) 0.5 % NaCl
(c) 1.6 % NaCl (d) 0.9 % NaCl

46. In cosmetic preparation, antioxidants used in an aqueous system

(a) Sodium formaldehyde (b) Phenol
(c) Alpha tocopherol (d) Methyl paraben

47. A typical auxin of plant, which is used in growing tissue, is

(a) Indole-3-acetic acid (b) 1-naphthaleneacetic acid

57. Which of the following is true about latanoprost

- (a) Increases trabecular meshwork outflow
- (b) Increases uveoscleral outflow
- (c) Causes papillary dilatation
- (d) Causes iris hyperpigmentation by stimulating the multiplication of melanocytes

58. Which of the following is true statement about cocaine

- (a) Is a direct acting sympathomimetic drug
- (b) Causes pupil dilation in normal people
- (c) Causes pupil constriction in Horner's syndrome
- (d) Can be used to differentiate between preganglionic and postganglionic Horner's syndrome

59. All of the following are side-effects seen in α adrenoreceptor blockers EXCEPT

- (a) Reduced tear production
- (b) Decreased corneal sensation
- (c) Myopic shift
- (d) Impotence

60. All of the following statement are correct about steroid in eyes EXCEPT

- (a) Removal of corneal epithelium will increase the ocular penetration of corticosteroid
- (b) Acetate preparation then to come in suspension form
- (c) Phosphate preparation has a better corneal penetration than acetate preparation
- (d) Subconjunctival injection of corticosteroid achieve a better ocular penetration than topical instillation

61. Schedule FF contain the list of the following

- (a) Standard for ophthalmic preparation
- (b) Drugs which can be marked under generic names only
- (c) Drugs which are habit forming
- (d) Standard for cosmetics

62. Application form 19C is used for the following schedule

- (a) Schedule C & C1
- (b) Schedule C
- (c) Homeopathic drugs
- (d) Schedule X

63. Schedule P includes

- (a) Central drug laboratory
- (b) Life period of drugs
- (c) Good manufacturing practices
- (d) Disinfectant fluids

64. **Schedule L is concerned with**

- (a) Habit forming drugs
- (b) Homeopathic drugs
- (c) Goods manufacturing practices
- (d) List of drugs to be sold on prescription only

65. **Habit forming and psychotropic drugs are concerned with**

- (a) Schedule FF
- (b) Schedule K
- (c) Schedule X
- (d) Schedule D

66. **State pharmacy council should have the following number of elected numbers**

- (a) Six
- (b) Five
- (c) Nine
- (d) Seven

67. **Schedule O is related to**

- (a) Stand for ophthalmic preparation
- (b) Standard for disinfectant fluids
- (c) For external use only
- (d) Standard for cosmetics

68. **A mercantile agent who negotiates purchase or sale of goods on behalf of others parties**

- (a) Commission agents
- (b) Factor
- (c) Auctioner
- (d) Broker

69. **ABC analysis means**

- (a) Average better control
- (b) Annual better control
- (c) Always better control
- (d) Arbitrarily better control

70. **A test is used to judge the mental capacity of an applicant**

- (a) Personality tests
- (b) Proficiency tests
- (c) Aptitude tests
- (d) Intelligence tests

71. **Mercantile agent also known as**

- (a) Agent middleman
- (b) Functional middleman
- (c) Both Agent middleman and Functional middleman
- (d) None of the above

72. **A merchant who can initiates entirely on buying and selling in large lots and doesn't engage in manufacturing or retaining operation**

- (a) Pure wholesaler
- (b) Manufacturer wholesaler
- (c) Retailer wholesaler
- (d) None of the above

73. **Reorder level is equal to**

- (a) Maximum order period – usage
- (b) Maximum order period + maximum usage
- (c) Maximum order period/maximum usage
- (d) Maximum order period x maximum usage

74. Annual usage is equal to

- (a) Annual requirement – per unit cost
- (b) Annual requirement x per unit cost
- (c) Annual requirement/ per unit cost
- (d) Annual requirement + per unit cost

75. Warfarin behaves as a competitive antagonist of

- (a) Vitamin B
- (b) Vitamin C
- (c) Vitamin K
- (d) Vitamin D

76. The risk of digitalis toxicity is increased by concomitant administration of

- (a) Triamterene
- (b) Captopril
- (c) Lidocaine
- (d) Hydrochlorthiazide

77. The xenobiotics that does not causes nephotoxicity is

- (a) Streptozotocin
- (b) Cisplatin
- (c) Isoniazid
- (d) Gentamycin

78. Choose the drugs that often causes tachycardia when given with regular doses

- (a) Isosorbide dinitrite
- (b) Verapamil
- (c) Propranolol
- (d) Guanethidine

79. Cyclophosphamide is

- (a) Anti HIV drug
- (b) Analgesic drug
- (c) Anticancer drug
- (d) Antiepileptic drug

80. Hyperuricemia is associated with abnormal metabolism of

- (a) Thiamine
- (b) Riboflavin
- (c) Pyrimidines
- (d) Purines