

Rajasthan Pharmacist

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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 slid 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 (b) Mineral oil
(c) Perfluorokerosene (d) Fluorolube
10. Which of the following is a microsomal enzyme inducer?
(a) Indomethacin (b) Clofibrate
(c) Tolbutamide (d) Glutethamide
11. Fiducial limit is a term used in
(a) Microbiological assay (b) Biologically assay
(c) Chemical 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 live 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 hypolipdemic 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) Ergotamine (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. Ergot alkaloids consists of which heterocyclic rings fused together ?
- (a) Indole and pyrrole
(b) Indoline and pyridine
(c) Indoline and pyrrolidine
(d) Indoline 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) Squamous cell CA (b) Adenocarcinoma
(c) Small cell CA (d) Large cell CA
27. The pathological appearance in pseudo membrane colitis of

- (a) Necrosis and gangrene
(b) Small ulceration with slough
(c) Seresitis with covered by membrane
(d) Excessive ulceration in serosis
28. All of the following arteries supplies to the stomach except
(a) Rt. Gastric artery (b) Lt. Gastric artery
(c) Splenic artery (d) Inferior mesenteric artery
29. Which organ has dual blood supply ?
(a) Liver (b) Pancreas
(c) Testis (d) Duodenum
30. Which of the following space where the infection of index finger will spread
(a) Mid-palmer space (b) Radial bursa
(c) Thenar space (d) Dorum of hand
31. The increased incidence of infection in ischio rectal fossa is due to
(a) Absence of deep fascia (b) Proximity to anus
(c) Poor blood supply (d) Presence of fibrofatty tissue
32. All are true regarding capillaries except
(a) Have large total cross-sectional area
(b) Contain larger quantity of blood than veins
(c) Site of gaseous exchange
(d) Lined by endothelium
33. Hyaline membrane contains
(a) Albumin (b) WBCs
(c) Glbulin (d) Fibrin
34. Which is the best parameter for analysis of hypoxic hypoxia ?
(a) Arterial PO_2 (b) Arterial PCO_2
(c) Venous PO_2 (d) A-V difference
35. Malaria is caused by
(a) *Plasmodium falciparum* (b) *Plasmodium vivax*
(c) *Plasmodium malarae* (d) All of the above
36. Which of the following are not surface infections ?
(a) Rabbies (b) Syphilis
(c) Tetanus (d) Trachoma
37. All of the following can cause urinary tract infections except

- (a) Proteus (b) Faecal 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 hydroxyl toluene
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

- (c) 2,4 - dichlorophenoxyacetic acid
(d) 2,4,5 - trichlorophenoxyacetic acid
48. The largest peak in the mass spectrum is known as
(a) Metastable peak (b) Isotope peak
(c) Base peak (d) Fragmentation peak
49. Procainamide when given intravenously can cause a drop in blood pressure probably due to
(a) Inhibit sympathetic ganglia
(b) Vagolytic action
(c) Stimulate parasympathetic ganglia
(d) None of above
50. The most important property of Digitalis glycoside in their positive
(a) Inotropic action (b) Chronotropic action
(c) Deromotropic action (d) Bathmotropic action
51. In non titration of amine halides, the halide ion is removed by the addition of
(a) Ethyl acetate (b) Sodium acetate
(c) Cellulose acetate (d) Mercuric acetate
52. Milk of magnesia is a preparation containing between 7 and 8.5 % of
(a) Magnesium hydroxide (b) Magnesium gluconate
(c) Magnesium perchlorate (d) Magnesium oxide
53. Light-liquid paraffin IP and Liquid Paraffin IP is differentiated by their
(a) Flash point (b) Appearance
(c) Pour pint (d) Odour
54. Chronic administration of glucocorticoids results in all of the following adverse effects except
(a) Hypertension (b) Hyperkalaemia
(c) Proximal myopathy (d) Ocular hypertension
55. Adverse effects of cyclosporin include all of the following except
(a) Tremor (b) Hirsutism
(c) Nephrotoxicity (d) Hypokalaemia
56. Which of the following is true statement about Corticosteroids
(a) Inhibits lipocortin production
(b) Inhibits leukotriene C4 and D4 synthesis
(c) Inhibits platelet thromboxane A2 synthesis
(d) Inhibits neutrophil production

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 come in suspension form
 - (c) Phosphate preparation has a better corneal penetration then 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) Auctioneer
(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) Hydrochlorothiazide
77. The xenobiotics that does not causes nephrotoxicity 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