

019/2025

Maximum : 100 marks

Time : 1 hour and 30 minutes

1. Sterilization by dry heat is effected usually by heating at :
(A) 100°C for 1 hour (B) 121°C for 20 minutes
(C) 160°C for 2 hour (D) 200°C for 20 minutes
2. Microorganisms that are very resistant to heat treatments are said to be :
(A) thermophilic (B) mesophilic
(C) psychotropic (D) thermoduric
3. Which among the following is not an example of bacteria proof filter?
(A) Filter candle (B) Meta filter
(C) Millipore filter (D) Sintered metal filter
4. Method of incorporation of disintegrants in tablets is :
(A) before granulation (B) after granulation
(C) in parts before and after granulation (D) with coating solution
5. Melting point of materials influence which tablet defect?
(A) picking (B) lamination
(C) chipping (D) capping
6. Capacity of the cylindrical vessel present in tablet dissolution test apparatus is usually :
(A) 1 litre (B) 100 ml
(C) 500 ml (D) 750 ml
7. Coacervation phase separation is a method used for which process?
(A) Tablet coating (B) Microencapsulation
(C) Sterilization (D) All of the above
8. Which source of sterilization is produced by passing of a high voltage through mercury vapor in evacuated glass tube?
(A) X rays (B) Beta rays
(C) Gamma rays (D) UV rays

9. Preservatives used in the formulation of capsule shell of hard gelatin capsule :
- (A) glycerin (B) sorbitol
(C) paraben (D) vanillin
10. The moisture content of hard gelatin capsule shell is usually :
- (A) 10 to 15% (B) less than 1%
(C) zero (D) none of the above
11. In the formulation of a suspension electrolytes are used commonly as :
- (A) flocculating agent (B) suspending agent
(C) wetting agent (D) preservative
12. Which of the following solids does not require a suspending agent when formulated into a suspension?
- (A) aspirin (B) chalk
(C) light kaolin (D) resins
13. Surfactants with HLB value between 3 and 6 favor the formation of which type of emulsion?
- (A) o/w (B) w/o
(C) both o/w and w/o (D) none of the above
14. Optimum phase volume ratio for obtaining a stable emulsion is :
- (A) below 25% (B) above 75%
(C) between 90 – 100% (D) between 30 – 60%
15. Sodium alkyl sulfosuccinate is used for which purpose in a dentifrice?
- (A) therapeutic agent (B) detergent
(C) binder (D) abrasive
16. Which among the following is a permanent hair removal method for body hair?
- (A) electrolysis (B) chemical peeling
(C) depilation (D) epilation
17. Coulter counter is used for which evaluation test for parenteral preparation?
- (A) BET test (B) Sterility test
(C) Leakage test (D) Clarity test

18. Which is not preferred as a vehicle among the following for the formulation of parenterals?
- (A) liquid paraffin (B) alcohol
(C) cottonseed oil (D) glycerin
19. A popular vehicle which is isotonic with lachrymal fluid?
- (A) water (B) 0.09% saline
(C) 1.9% boric acid (D) 0.9% barium chloride
20. Which is an ingredient avoided in the formulation of ophthalmic ointment?
- (A) wool fat (B) white soft paraffin
(C) liquid paraffin (D) all of the above
21. Which of the following statement regarding sodium hydroxide is correct?
- (A) A powerful caustic (B) Highly deliquescent
(C) Absorbs carbon dioxide from air (D) All of the above
22. Borate buffers are contraindicated for :
- (A) Ophthalmic solutions (B) Parenteral solutions
(C) Nasal solutions (D) External preparations
23. The official solution of Hydrogen Peroxide in the I.P. is :
- (A) solution containing 6% w/v of Hydrogen peroxide
(B) solution containing 3% w/v of Hydrogen peroxide
(C) solution containing 27% w/v of Hydrogen peroxide
(D) solution containing 30% w/v of Hydrogen peroxide
24. Aqueous salt of Sodium Nitrite is :
- (A) Alkaline to litmus
(B) Acidic to litmus
(C) Neutral to litmus
(D) Both acidic and alkaline to litmus
25. Povidone – Iodine belongs to :
- (A) Aqueous Iodine solution (B) Strong Iodine solution
(C) Iodine tincture (D) Iodophor compound
26. The chemical formula for Ammoniated Mercury is :
- (A) $\text{NH}_2 \text{HgCl}$ (B) $\text{NH}_4 \text{HgCl}$
(C) $\text{NH}_3 \text{HgCl}$ (D) $\text{NH}_2 \text{HgNH}_2$

27. Ammonium Chloride may be used as :
- (A) Expectorant (B) Systemic acidifier
(C) Diuretic (D) All of the above
28. Which of the following statement about Antimony Potassium Tartrate is true?
- (A) Its taste is sweet
(B) Its crystals effloresce when exposed to dry air
(C) It is an emetic
(D) All of the above
29. Calcium Gluconate can be administered by :
- (A) Orally (B) Intramuscular Injection
(C) Intravenous Injection (D) All of the above
30. All of the following are also known as “Chlorinated Lime” except :
- (A) Slaked Lime (B) Chloride of Lime
(C) Bleaching Powder (D) Calcium Chloro-Hypochlorite
31. Chemical name of Dapsone is :
- (A) 4,4' – Dimethyl diphenyl sulfone
(B) 4,4' – Diethyl diphenyl sulfone
(C) 4,4' – Diamino diphenyl sulfone
(D) 4,4' – Diamino diphenyl sulfonamide
32. All of the following are Antifungal Antibiotics except :
- (A) Griseofulvin (B) Tolnaftate
(C) Nystatin (D) Amphotericin
33. Which of the following statement about proguanil is true?
- (A) It is a dihydrofolate reductase inhibitor
(B) Its active form is cycloguanil
(C) Used for both Prophylaxis and treatment of malaria
(D) All of the above
34. Carbenicillin is an example of :
- (A) Natural Penicillin (B) Penicillinase resistant Penicillin
(C) Anti-pseudomonal Penicillin (D) Acid stable Penicillin

35. 5-Fluorouracil is used in the treatment of :
- (A) Breast cancer (B) Colorectal cancer
(C) Basal cell cancer of the skin (D) All of the above
36. Azathioprine is a heterocyclic derivative of :
- (A) 5-Fluorouracil (B) 6-Mercaptopurine
(C) Methotrexate (D) None of the above
37. Mannitol is mainly used by intravenous infusion as :
- (A) Carbonic anhydrase inhibitor (B) Potassium-sparing diuretic
(C) Osmotic diuretic (D) Thiazide diuretic
38. Which one of the following can be administered orally?
- (A) Adrenaline (B) Noradrenaline
(C) Isoprenaline (D) Salbutamol
39. Which of the following is a monoamine oxidase inhibiting antidepressant?
- (A) Imipramine (B) Phenelzine
(C) Amitriptyline (D) Nortriptyline
40. Which of the following is NOT a benzodiazepine derivative?
- (A) Chlordiazepoxide (B) Diazepam
(C) Lorazepam (D) Meprobamate
41. Which among the following is an isoquinoline alkaloid?
- (A) Quinine (B) Emetine
(C) Ergometrine (D) Strignine
42. The toxic substance present in Nutmeg is :
- (A) Safrole (B) Eugenol
(C) Myristicine (D) Pinine
43. Which among the following is a C-glycoside?
- (A) Sennoside C (B) Aloe-emodin
(C) Rhein (D) Aloin
44. The oil which is used for the production of Vanillin?
- (A) Clove oil (B) Lemon oil
(C) Cinnamon oil (D) Peppermint oil

45. Stomata present in *Digitalis purpurea* :
- (A) Rubiaceae (B) Ranunculaceae
(C) Caryophyllaceae (D) Cruciferae
46. Which of the following does not possess narcotic activity?
- (A) Narcotine (B) Morphine
(C) Diacetylmorphine (D) Tetrahydrocannabinol
47. Which among the following is known as 'St. Antony's Fire'?
- (A) Belladonna (B) *Digitalis*
(C) *Rauwolfia* (D) Ergot
48. The bitter glycoside present in *Cinchona* is :
- (A) Quinidine (B) Quinine
(C) Cinchonine (D) Quinovin
49. Which among the following is used as an anti-inflammatory agent?
- (A) Diastase (B) Pepsin
(C) Papain (D) Gelatin
50. Cremocarp of Coriander fruit contains :
- (A) 2 vittae (B) 4 vittae
(C) 6 vittae (D) 12 vittae
51. Which of the following drug is administered intravenously to induce anaesthesia?
- (A) Isoflurane (B) Nitrous oxide
(C) Thiopentone sodium (D) Ether
52. An adverse effect of Penicillin is :
- (A) Bone Marrow suppression (B) Teratogenicity
(C) Ototoxicity (D) Hypersensitivity reaction
53. Which among the following is not a loop diuretic?
- (A) Furosemide (B) Indapamide
(C) Bumetanide (D) Torsemide
54. An adrenergic drug used as bronchodilator is :
- (A) Terbutaline (B) Methoxamine
(C) Dobutamine (D) Aminophylline

55. The classification under which glibenclamide belongs :
- (A) Sulphonyl ureas (B) Biguanides
(C) Thiazolidinediones (D) Phenylalanine analogues
56. An example for intermediate acting nondepolarizing neuromuscular blocking agent is :
- (A) Doxacurium (B) Cisatracurium
(C) Mivacurium (D) Succinylcholine
57. Which among the following is an autocoid?
- (A) Ketanserin (B) Mephenteramine
(C) Glucagon (D) Histamine
58. Antithrombotic dose of Aspirin is :
- (A) 300-400 mg/day (B) 10-25 mg/day
(C) 75-150 mg/day (D) 400-600 mg/day
59. Which of the following drug produce “on-off effect” on long term therapy?
- (A) Phenytoin (B) Chlorpromazine
(C) Clozapine (D) Levodopa
60. Therapeutic dose of isoniazid for adults is :
- (A) 200 mg (B) 300 mg
(C) 100 mg (D) 750 mg
61. Obsolescent item is :
- (A) It is going out of use, but not yet completely unusable
(B) It is no longer usable due to change in practice
(C) It is an unusable item having only material cost
(D) It cannot be used
62. What is lead time?
- (A) The average time for placing an order
(B) The average time for accepting an order
(C) The average time for placing an order and receiving the item
(D) The time taken for scrutinizing the order

63. Buffer stock items means :
- (A) The quantity of items which are expired
 - (B) The quantity of items is not of standard
 - (C) The quantity of items kept for unfrozen demands
 - (D) The quantity of items which are not useable
64. Re-order level means :
- (A) The level at which new order to be placed
 - (B) The level at which cancellation of order
 - (C) The level at which recall of order
 - (D) The level at which there is zero order
65. The carrying cost includes the following except :
- (A) The interest on the money locked up on the material stocked
 - (B) The amount of Tax payable
 - (C) The insurance on goods
 - (D) The cost incurred by the purchase department
66. ABC analysis of inventory means :
- (A) Always buffered control
 - (B) Always beneficial control
 - (C) Always better control
 - (D) Alternative better control
67. The major legal requirements of procurement of drugs include :
- (A) Pharmacy Act
 - (B) Drugs and Magic remedies Act
 - (C) Poison Act
 - (D) Drugs and Cosmetic Act
68. The following statement is not correct about open tender :
- (A) Quotations are invited from the manufacturers or their representatives
 - (B) Quotations are based on the terms and conditions specified in the tender invitation
 - (C) Open tenders used only in those cases where the value of the tender is moderate
 - (D) Open tenders are used for procurement of large quantity of items
69. In ABC Analysis A item covers :
- (A) 10% of total inventory
 - (B) 20% of total inventory
 - (C) 80% of total inventory
 - (D) 50% of total inventory

70. Perpetual inventory system means :
- (A) Inventories are managed by cost
 - (B) A system of recording the store balance after every receipt and issue
 - (C) Vital few trivial many
 - (D) Inventories are managed by numbers
71. Schedule FF is related with :
- (A) Paste formulation
 - (B) Skin and cosmetic preparation
 - (C) Ophthalmic preparation
 - (D) Oral Liquid formulation
72. The objective of Pharmacy Act 1948 except :
- (A) Regulating and raising the status of profession of pharmacy in India
 - (B) Regulating the stock and sale of drugs in pharmacies
 - (C) Providing uniform education and training to pharmacy professionals
 - (D) Maintaining control over the persons entering the profession
73. As per schedule P sodium valproate tab should be stored in/at :
- (A) A cold place
 - (B) Temperature not exceeding 5 degrees
 - (C) A cool dry place away from heat and direct light
 - (D) A temperature below 25 degrees
74. Amoxycillin clavulanic acid tab comes under :
- (A) Schedule P
 - (B) Schedule H
 - (C) Schedule X
 - (D) Schedule F
75. The Drug and Magic Remedies Act is enacted in the year :
- (A) 1948
 - (B) 1919
 - (C) 1940
 - (D) 1954
76. As per Narcotic drugs and psychotropic substance Act rules a person cultivates or sell, transport of Cannabis on first conviction is :
- (A) Rigorous imprisonment up to 10 years or fine up to Rs. 10 lakhs
 - (B) Rigorous imprisonment up to 10 years or fine up to Rs. 1 lakhs
 - (C) Rigorous imprisonment up to 1 years or fine up to Rs. 10 lakhs
 - (D) Rigorous imprisonment up to 1 years or fine up to Rs. 5 lakhs

77. Schedule _____ of Drugs and Cosmetic Act contains a list of diseases and ailments which a drug may not claim to prevent or cure.
- (A) C & C1 (B) F
(C) J (D) H
78. The Drugs and Cosmetic Act was passed with main objective to :
- (A) To register a pharmacist
(B) Regulate import, manufacture distribution sale of drugs and cosmetics
(C) Raise the status of the profession of pharmacy
(D) Providing uniform education to pharmacists
79. In State Pharmacy Council how many members are elected from amongst themselves by registered pharmacists of the state?
- (A) Four (B) Five
(C) Six (D) Seven
80. For licence granted to sell by wholesale drugs, specified C and C(1) drugs form no is :
- (A) 20 (B) 21
(C) 20B (D) 21B
81. The safest and the most efficient means of delivering drugs from the pharmacy to the patients :
- (A) Unit dose drug distribution system (B) Complete floor stock system
(C) Online pharmacy (D) Combination of (B) and (C)
82. Model essential medicine list was prepared by :
- (A) Hospital Management (B) Government
(C) WHO (D) DMO
83. One of the disadvantage of floor stock system :
- (A) No return of drugs to the pharmacy
(B) Reduction in drug order transcriptions
(C) Reduction in pharmacy personnel
(D) Inadequate supervision of drug stocked
84. For the calculation of the parameter economic order quantity, we are not using :
- (A) Consumption over a period of time
(B) Cost for pain and sufferings
(C) Setup costs
(D) Direct production cost per unit

85. Water for injection is prepared by :
- (A) Distillation (B) Demineralization
(C) Sedimentation (D) Decantation
86. In sterile manufacturing, the solute benzalkonium chloride is used in the concentration of _____ percentage.
- (A) 0.5% (B) 0.001%
(C) 0.01% (D) 0.45%
87. Type I borosilicate glass container for parenteral preparation is composed of :
- (A) Sodium oxide and boric oxide (B) Calcium oxide and boric oxide
(C) Silicon dioxide and calcium oxide (D) Silicon dioxide and boric oxide
88. Indexing and abstracting sources are induced in which type of literature in Drug Information :
- (A) Primary (B) Secondary
(C) Tertiary (D) Quaternary
89. Bandage cloth consists of cotton cloth of plain weave made from machine spun yarn of suitable count to comply with a bleached count between _____ for a warp.
- (A) 20 tex and 25 tex (B) 25 tex and 30 tex
(C) 35 tex and 40 tex (D) 41 tex and 45 tex
90. The member secretary in PTC :
- (A) RMO (B) Registered medical practitioner
(C) Head Nurse (D) Hospital Pharmacists
91. The category of drugs which induces peptic ulcer?
- (A) Sulphonyl ureas (B) NSAID's
(C) Biguanides (D) Statins
92. The test which is used to detect antibody on cell surface :
- (A) APTT (B) Creatinine
(C) Coomb's test (D) Alkaline phosphatase test
93. The marker used to detect acute myocardial infarction :
- (A) Lactic acid dehydrogenase (B) Alkaline phosphatase
(C) SGOT (D) Creatinine phosphokinase

94. Interaction of MAO inhibitors with tyramine will result in :
- (A) Hypertensive crisis (B) Diabetes mellitus
(C) UTI (D) Rheumatic Diseases
95. Potassium salts will not interact with :
- (A) Triamterene (B) Amiloride
(C) Quinidine (D) Ranitidine
96. The consequence of interaction between NSAID's and methotrexate is :
- (A) Effect of NSAID's will increase
(B) Therapeutic failure
(C) Increased toxicity of methotrexate
(D) Decreased toxicity of methotrexate
97. The teratogenicity of indomethacin will result in :
- (A) Multiple defects
(B) Premature closure of ductus arteriosus
(C) Foetal goitre
(D) Virilization of female foetus
98. Antidot of Acetaminophen :
- (A) Acetyl cysteine (B) Atropine
(C) Pralidoxime (D) Deferoxamine
99. Arsenic poisoning can be treated by :
- (A) EDTA (B) Alcohol
(C) Mannitol (D) Dimercaprol
100. If a structurally different drug provides the same therapeutic or clinical response as another drug, the two are considered as being :
- (A) Nonequivalent (B) Therapeutic equivalent
(C) Clinical equivalent (D) Chemical equivalent

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