

145/2023

Maximum : 100 marks

Time : 1 hour and 30 minutes

1. Millipore filters are examples of which type of filters used in sterilization :
(A) Membrane filters (B) Ceramic filters
(C) Seitz filter (D) Fibrous Pad
2. Enhanced sterilizing action of moist heat is mainly due to :
(A) Oxidation of essential cell constituents
(B) Coagulation of Protoplasm
(C) Ionisation of cell constituents
(D) Alkylation of cell constituents
3. Which of the following is true about disinfection?
(A) Destroys all viable forms of microorganisms
(B) Done by physical and chemical methods
(C) Cannot be used for producing sterile products
(D) None of the above
4. Sieve number used for wet screening of granules in moist granulation process of tablet manufacturing :
(A) Sieve No.3 (B) Sieve No.10
(C) Sieve No.22 (D) Sieve No.44
5. Super disintegrants used as tablet excipients :
(A) are required in low concentration
(B) swell and disrupt the tablet
(C) are mainly modified starches and cellulose
(D) all of the above
6. Inadequate removal of air from granules in the die cavity before and during compression of tablets leads to :
(A) Picking (B) Sticking
(C) Binding (D) Capping
7. Disintegration test for uncoated tablets is carried out using which of the following immersion liquid at $37\pm 2^\circ$:
(A) 0.1N HCl (B) 6.8 Phosphate buffer
(C) Distilled water (D) Simulated gastric fluid

8. Film forming polymer commonly used in film coating of tablets :
- (A) Salol (B) Cellulose acetate phthalate
(C) Hydroxy propyl methyl cellulose (D) Shellac
9. Most suitable capsule number used for filling 450 mg of a powder fill :
- (A) 000 (B) 0
(C) 3 (D) 5
10. Which of the following is not a Quality control test for capsules?
- (A) Uniformity of weight (B) Uniformity of content
(C) Disintegration test (D) Friability test
11. In the formulation of suspension which of the following is the use of non-ionic surfactant :
- (A) Flocculating agent (B) Thickening agent
(C) Antifoaming agent (D) Preservative
12. The HLB value of Sorbitan monoleate is :
- (A) 2.5 (B) 4.3
(C) 12.0 (D) 16.7
13. Resinous drugs containing preparations fall into which category of suspension :
- (A) Suspensions containing diffusible solids
(B) Suspension containing indiffusible solids
(C) Suspension produced by chemical reaction
(D) Suspension containing precipitate forming liquids
14. Preservative used in the formulation of emulsion :
- (A) Cobalt chloride (B) Benzoic acid derivatives
(C) Ascorbic acid (D) Tocopherol
15. Humectant used in the formulation of dental preparations :
- (A) Methyl cellulose (B) Propylene glycol
(C) Hydrated alumina (D) None of the above
16. Materials used to impart lustre to the hair and keep hair in place :
- (A) Hair tonic (B) Hair conditioner
(C) Brilliantines (D) Depilatory

17. Dye used for leaker test for the evaluation of parenteral products :
- (A) Methylene blue (B) Scarlet red
(C) Bromothymol blue (D) All of the above
18. Which among the following is an example of water miscible non aqueous solvent used in the preparation parenteral preparations?
- (A) Ethyl oleate (B) Isopropyl myristate
(C) PEG 400 (D) Benzyl benzoate
19. The bactericide used in ophthalmic preparation must be rapidly effective against wide range of microorganisms particularly :
- (A) Escherichia coli
(B) Pseudomonas aeruginosa
(C) Salmonella typhi
(D) Clostridium tetani
20. Eye drops are sterilised by :
- (A) Autoclaving (B) Heating with bactericide
(C) Membrane filtration (D) All of the above
21. The available iodine in povidone-iodine, calculated on dry basis, is :
- (A) 9% to 12% (B) 1% to 3%
(C) 27% to 30% (D) 5% to 7%
22. Which of the following statement about Boric acid is correct?
- (A) Very weak acid
(B) Much weaker than carbonic acid
(C) Having a very low dissociation constant
(D) All of the above
23. The emulsifying action of borax on oils is due to the presence of free alkali formed by :
- (A) Oxidation (B) Reduction
(C) Hydrolysis (D) Esterification
24. The pellets of sodium hydroxide should be kept in well-closed bottles because it is :
- (A) Highly efflorescence
(B) Highly deliquescent and absorbs carbon dioxide from the air
(C) Highly hygroscopic and absorbs oxygen from the air
(D) Highly effervescence

25. Which of the following statement about mild silver protein is not correct?
- (A) Non-irritant
 - (B) Used as a mild antiseptic
 - (C) Silver rendered colloidal by combination with protein
 - (D) Contains less amount of silver than strong silver protein
26. The suitable calcium salt as a stabilizer used in the official calcium gluconate intravenous injection is :
- (A) Calcium chloride hexahydrate
 - (B) Dibasic calcium phosphate
 - (C) Calcium lactate
 - (D) Calcium D-Saccharate
27. Which of the following drug is effective in treating severe metabolic alkalosis when administered intravenously?
- (A) Ammonium chloride injection
 - (B) Boric acid injection
 - (C) Sodium nitrite injection
 - (D) Calcium gluconate injection
28. "Tartar emetic" is chemically known as :
- (A) Sodium potassium tartrate
 - (B) Antimony potassium tartrate
 - (C) Antimony sodium gluconate
 - (D) Antimony sodium tartrate
29. All of the following are official compounds of Iron EXCEPT :
- (A) Ferric sulphate
 - (B) Ferrous sulphate
 - (C) Ferrous gluconate
 - (D) Ferric ammonium citrate
30. All of the following statements about Lugol's solution are correct EXCEPT :
- (A) Contains no alcohol
 - (B) Contains more amount of potassium iodide than iodine
 - (C) Otherwise called aqueous solution of iodine
 - (D) Cannot be taken by mouth
31. All of the following statements regarding Benzalkonium chloride are true EXCEPT :
- (A) Cationic surfactant
 - (B) Quaternary ammonium compound
 - (C) Water insoluble
 - (D) Detergent, emulsifier and wetting agent
32. All of the following compounds exhibit amphoteric properties EXCEPT :
- (A) Amphotericin
 - (B) Tetracycline
 - (C) Sulfanilamide
 - (D) Benzyl penicillin

33. All of the following are anti-tubercular antibiotics EXCEPT :
- (A) Erythromycin (B) Streptomycin
(C) Rifampicin (D) Cycloserine
34. An aromatic nitro compound, used as a broad spectrum antibiotic :
- (A) Ampicillin (B) Benzathine penicillin
(C) Chloramphenicol (D) Daunorubicin
35. Which of the following statement about chloroquine is correct?
- (A) 4-Aminoquinoline derivative
(B) Used for both prophylaxis and treatment of malaria
(C) For the treatment of extra intestinal amoebiasis
(D) All of the above
36. A drug which belongs to fluorobutyrophenone with antipsychotic activity :
- (A) Chlorpromazine (B) Thiothixene
(C) Trifluoperazine (D) Haloperidol
37. Diazepam is used :
- (A) For several anxiety states (B) As anticonvulsant
(C) In various spastic disorders (D) All of the above
38. Adrenaline is light sensitive and easily oxidised on exposure to air because of the moiety in adrenaline :
- (A) Secondary hydroxyl group (B) Secondary amino group
(C) Catechol ring system (D) All of the above
39. The most widely used anticholinesterase agent for treating myasthenia gravis :
- (A) Atropine (B) Pyridostigmine
(C) Tolazoline (D) Ephedrine
40. Most of the anti-neoplastic alkylating agents contain :
- (A) Nucleophilic groups
(B) Electrophilic groups
(C) Both nucleophilic and electrophilic groups
(D) None of the above

41. Which of the following plant is commonly known as Henbane?
 (A) Belladonna (B) Rhubarb
 (C) Aconite (D) Hyoscyamus
42. Meconic acid is a dibasic acid found in :
 (A) Opium (B) Cinchona
 (C) Clove (D) Ipecacuanha
43. Hallucinogenic drug LSD is prepared from :
 (A) Cannabis (B) Cocoa leaves
 (C) Ergot (D) Nutmeg
44. Cinnamon is the dried inner bark of the coppiced shoots of *Cinnamomum zeylanicum* Nees., belonging to family Lauraceae. Coppicing means :
 (A) Cutting at ground level (B) Separation of inner bark
 (C) Cutting of branches (D) Separation outer bark
45. Cardamom consists of the dried ripe seeds of *Elettaria cardamomum* Maton., belonging to family :
 (A) Myrtaceae (B) Zingiberaceae
 (C) Lauraceae (D) Leguminosae
46. Guggal is a gum resin obtained by incision of the bark of :
 (A) *Commiphora mukul* (B) *Commiphora molmol*
 (C) *Commiphora merkkii* (D) *Commiphora airica*
47. Hydnocarpic acid is a constituent of :
 (A) Castor oil (B) Shark liver oil
 (C) Chaulmoogra oil (D) Lemon grass oil
48. In Fiehe's test for honey, on addition of which reagent gives a transient red colour for natural honey :
 (A) 1% alpha naphthol (B) 1% resorcinol
 (C) 5% Ferric chloride (D) 2% Ferric chloride
49. Narcotic effect of Nutmeg is due to the presence of :
 (A) Elimicin (B) Saffrole
 (C) Myricticin (D) d-Camphene

50. Epidermis with thick-waved, bent and twisted lignified covering trichomes are characteristic feature of :
- (A) Coriander (B) Fennel
(C) Ephedra (D) Nux-vomica
51. Weight gain can be a side effect of the following anticonvulsants :
- (A) Carbamazepine (B) Phenytoin
(C) Valproic acid (D) Ethosuximide
52. Dipivefrine is an :
- (A) Epinephrine ester (B) Anti anginal agent
(C) Opioid analgesic (D) Antimuscarinic drug
53. Timolol has the following features except :
- (A) Non subtype selective beta-adrenergic antagonist
(B) No intrinsic sympathomimetic
(C) No membrane stabilizing activity
(D) Selective beta-adrenergic antagonist
54. Therapeutic index of digitalis is :
- (A) Low (B) High
(C) Safe (D) Moderate
55. Sulfonamides are not effective in the presence of pus because they are rich in :
- (A) Folic acid (B) Purine
(C) Tetrahydrofolic acid (D) PABA
56. Diacetylmorphine is :
- (A) Meperidine (B) Heroin
(C) Pholcodine (D) Tramadol
57. Which endogenous substance depletion potentiates paracetamol toxicity?
- (A) Glucuronic acid (B) Glutathione
(C) N-acetyl cystine (D) Amino acid
58. Select the long-acting semisynthetic tetracycline :
- (A) Demeclocycline (B) Chlortetracycline
(C) Minocycline (D) Oxytetracycline
59. Doxapram is :
- (A) Convulsant (B) Psychomoto stimulant
(C) Nootropics (D) Respiratory stimulant

60. Which of the following is not an intravenous anesthetic?
- (A) Sevoflurane (B) Fospropofol
(C) Fentanyl (D) Ketamine
61. The life period of polio vaccine when stored at minus 20°C is :
- (A) 12 months (B) 24 months
(C) 6 months (D) 3 months
62. As per Drugs and Cosmetic act 1940 and Rules 1945, "Cool Place" means place having a temperature between :
- (A) 10°C and 25°C (B) 8°C and 25°C
(C) Less than 25°C (D) Not exceeding 30°C
63. The flowering or fruiting tops of the cannabis plant (excluding the seeds and leaves when not accompanied by the tops), by whatever name they may be known or designated is known as :
- (A) Charas (B) Poppy
(C) Ganja (D) Erythroxyllum
64. Who among the following is not the member of Central council of Pharmacy council of India?
- (A) Representative of the University Grants Commission
(B) Representative of the All India Council for Technical Education
(C) Representative of Indian Council of Medical research
(D) Director general of Health services
65. "If the label or container bears the name of an individual or company purporting to be the manufacturer of the drug, which individual or company is fictitious or does not exist" it belongs to :
- (A) Misbranded drugs (B) Adulterated drug
(C) Spurious drug (D) All the above
66. The nominated member of Pharmacy Council of India shall hold office for a term of how many years from the date of his :
- (I) 5 years
(II) 3 years
(III) 6 years
(IV) Until his successor has been duly nominated
- (A) Only (I) (B) Only (I and IV)
(C) Only (II and IV) (D) Only (III and IV)

67. Which among the following conditions, in which their advertisements are prohibited?
 (A) Bright's disease and Dropsy (B) Cataract and Deafness
 (C) Insanity and Lupus (D) All the above
68. Any product of opium by any series of operations designed to transform opium an extract suitable for smoking and the dross or other residue remaining after opium is smoked is :
 (A) Prepared Opium (B) Medicinal Opium
 (C) Semi synthetic opium (D) Poppy Straw Concentrate
69. The pack size of Albendazole suspension :
 (A) 5ml (B) 10ml
 (C) 15ml (D) 30ml
70. Application for grant of a licence to sell, stock, exhibit or offer for sale, or distribute drugs other than those specified in Schedule X by wholesale is in :
 (A) Form 19 (B) Form 19A
 (C) Form 19AA (D) Form 19B
71. The upsurge in prices for goods and services is called :
 (A) Inflation (B) Deflation
 (C) Depression (D) Reflation
72. Which among the following comes under current liability?
 (A) Bonds (B) Debentures
 (C) Capital (D) Bank overdraft
73. Incentives are a part of :
 (A) Consumer promotion (B) Trade promotion
 (C) Good public relations (D) Sales force promotion
74. Which among the following is a constraint of sole proprietorship?
 (A) No sharing of profit and loss (B) Single ownership
 (C) Less legal formalities (D) Infinite liability
75. Request indicator refers to :
 (A) Lead time (B) Delivery time
 (C) Reorder level (D) Consumption level
76. The term capital refers to :
 (A) Assets-liabilities (B) Assets-credit
 (C) Assets-debentures (D) Asset-Merchandise

77. Aisle interrupter is a part of :
- (A) Market Research (B) Sales promotion
(C) Consumer protection (D) Pharmaceutical Care
78. Which among the following committee was constituted by Govt. of India to rationalize the price structure of drugs?
- (A) Hathi committee (B) Chopra committee
(C) Dharia Committee (D) C Rao Committee
79. When a given event affects both revenue and expenses, the effect on each should be recognized in the same period is a part of?
- (A) Consistency concept (B) Accrual concept
(C) Matching concept (D) Conservatism concept
80. The salary of staff is entered in which among the following account :
- (A) Real account (B) Nominal account
(C) Personal Account (D) None of the above
81. Which among the following is NOT a primary source of information?
- (A) Patents
(B) Manufacturer's Data Sheet
(C) Text Books
(D) Scientific journals publishing original research
82. Inventory control method ABC Analysis is based on which principle :
- (A) Pareto's Principle (B) Principle of supply and demand
(C) Principle of scarcity (D) Marginal analysis
83. Identify factors influencing the selection of drugs in a hospital formulary :
- (1) Efficacy
(2) Safety
(3) Cost
(4) Restricted use
- (A) All the above (B) (1) and (3) only
(C) (1), (2) and (3) only (D) (1) and (4) only
84. Average time duration between placing the order and the receipt of item is known as :
- (A) Incubation period (B) Usance period
(C) Shelf life (D) Lead time

85. Surgical instrument with long handles and angulated blades, not having ratchet and is used for picking sterile instruments and swabs at the time of surgery :
- (A) Sponge holding forceps (B) Cheetele's forceps
(C) Haemostatic forceps (D) Allis forceps
86. All inpatient drugs are dispensed in unit doses and all the drugs are stored in main pharmacy and dispensed at the time the dose is due to be given to the patient. This system is known as :
- (A) Decentralized unit dose drug distribution system
(B) Complete floor stock system
(C) Centralized unit dose drug distribution system
(D) Non charge floor stock system
87. The most vital committee in a hospital which is having both advisory and educational role :
- (A) Pharmacy and Therapeutics Committee
(B) Infection control committee
(C) Antibiotic Stewardship Committee
(D) Hospital development committee
88. "Clean room area" an atmosphere free from small particles of size less than 0.5 mm is given a distinct colour code :
- (A) Black (B) White
(C) Red (D) Orange
89. The day today assessment of all operations from receipt of raw materials to the distribution of finished products with analysis and testing of finished product is :
- (A) Quality assurance (B) Sterility testing
(C) Quality control (D) Inventory control
90. Bandage which is a union fabric with more than 60% wool content with warp cotton and weft is wool :
- (A) Crepe bandage (B) Calico bandage
(C) Cambric bandage (D) Domette bandage
91. Glucose 6 phosphate dehydrogenase enzyme deficient persons are at risk of developing haemolytic crisis with which of the following drug group :
- (A) Sulphonamides (B) Barbiturates
(C) Succinyl choline (D) Corticosteroids

92. In rheumatoid arthritis hypertrophy of the synovium due to sustained inflammation leads to the formation of a structure which spreads over the joint surface causing erosive destruction of cartilage and bone is :
- (A) Spur (B) Lewy bodies
(C) pannus (D) Condyle
93. Slow acetylators are at increased risk of developing which ADR :
- (A) Type A (B) Type B
(C) Type C (D) Type D
94. Which of the following is NOT an ingredient of universal antidote?
- (A) Tannic acid (B) Activated charcoal
(C) Pencillamine (D) Magnesium oxide
95. In disease conditions high ESR value is observed than normal. The reason is :
- (A) Increased glucose level in blood (B) Increased protein level in blood
(C) Decreased WBC count (D) Decreased glucose level in blood
96. The causative organism of peptic ulcer in susceptible individuals :
- (A) Treponema pallidum (B) Helicobacter pylori
(C) Yersinia pestis (D) Wuchereria bancrofti
97. Faecal oral route is the mode of transmission of :
- (A) Hepatitis E (B) Hepatitis C
(C) Hepatitis D (D) Hepatitis B
98. Ingestion of alcohol along with the use of sulphonyl ureas can cause :
- (A) Hyperglycemia (B) Weight gain
(C) Hypoglycemia (D) Lactic acidosis
99. Identify the drug which can induce hypertension in susceptible individuals :
- (A) Metformin (B) Ciclosporin
(C) Hydrochlorothiazide (D) Sodium valproate
100. A patient receiving ACE inhibitor and potassium sparing diuretic is at risk of developing :
- (A) Hypokalemia (B) Bradycardia
(C) Hyponatremia (D) Hyperkalemia

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