

98/2014

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. The microscopy of the seeds of Nux-vomica shows :
(A) Plasmodesma (B) Calcium oxalate crystals
(C) Starch (D) Medullary rays
2. Anti-mitotic alkaloidal drug is :
(A) Reserpine (B) Colchicine
(C) Picrotoxin (D) Quinine
3. Nitrates act as vasodilator by :
(A) Activating vascular guanylyl cyclases
(B) Activating vascular cyclic AMP
(C) Inhibiting Tyrosine kinase
(D) Acting as calcium channel blockers
4. The vaccine which contain inactivated viruses :
(A) Varicella vaccine (B) OPV
(C) MMR vaccine (D) Rabies vaccine
5. The symptoms of hyperuricemia in gout is associated with abnormal metabolism of :
(A) Urea (B) Pyrimidine
(C) Purine (D) Aminoacid
6. Increase in the extent of conjugation of a double bonded system results in :
(A) Bathochromic shift (B) Hyperchromic shift
(C) Hypochromic shift (D) Hypsochromic shift
7. In Cresol with soap solution, soap is used to :
(A) As a preservative
(B) Enhance the disinfectant activity of the solution
(C) Enhance the miscibility of cresol and water
(D) Enhance the detergent property of the product

8. Penicillins act by interfering with :
(A) Plasma membrane synthesis (B) Mitosis
(C) Protein synthesis in 's' phase (D) Cell wall synthesis
9. Agents with HLB value 13 to 15 are used as :
(A) Emulsifying agents (B) Wetting agents
(C) Solubilising agents (D) Detergents
10. In order to make a primary emulsion of a volatile oil using acacia, the ratio of oil: water: gum is :
(A) 2 : 2 : 1 (B) 3 : 2 : 1
(C) 4 : 2 : 1 (D) 1 : 2 : 1
11. The vehicle used in linctuses is :
(A) Hydroalcoholic solution (B) Syrups
(C) Glycerin (D) PEGs
12. The failure of oral contraceptive use in a 30 year old lady undergoing anti-tubercular treatment with rifampicin is due to :
(A) decreased absorption of contraceptive drug
(B) enhanced metabolism of contraceptive drug
(C) increased tissue binding of contraceptive drug
(D) complexation of rifampicin with contraceptive
13. The nucleus present in the alkaloid papaverine is :
(A) Phenanthrene (B) Indole
(C) Piperidine (D) Benzyl isoquinoline
14. List of drugs manufactured under the generic names only is given in the schedule :
(A) X (B) R
(C) W (D) P
15. In NMR spectroscopy, the chemical shift δ is expressed in :
(A) ppm (B) Gauss
(C) Hertz (D) Tesla

16. Ethylene oxide acts as an agent for gaseous sterilization by the process of :
(A) coagulation (B) alkylation
(C) oxidation (D) lysis of bacterial cells
17. Castor oil is obtained from the seeds of the plant belonging to the family :
(A) Rutaceae (B) Leguminoceae
(C) Euphorbiaceae (D) Lauraceae
18. Glucose-6-Phosphate dehydrogenase is an enzyme required for the stability of :
(A) hepatic cells (B) platelets
(C) red blood cells (D) lymphocytes
19. The test solution is heated with a crystal of resorcinol and conc. HCl and a rose colour is indicative of fructose. This test is called :
(A) Molisch's test (B) Biuret test
(C) Barfoeds test (D) Selivanoff's test
20. The year in which Pharmacy Act was passed :
(A) 1951 (B) 1947
(C) 1945 (D) 1948
21. Acid fast bacteria is characterized by the presence of :
(A) Mycolic acid in the cell wall
(B) Mycolic acid in the plasma cell membrane
(C) Glycosaminoglycan in the cell wall
(D) Muramic acid in the cell wall
22. In Mass spectroscopy, the spectrum is obtained as a plot of :
(A) Molecular weight versus peak height
(B) Concentration versus peak height
(C) Molecular weight versus degree of deflection of ions
(D) Relative abundance of ions versus m/e ratio
23. An inhaled anticholinergic agent used in asthma :
(A) Ipratropium bromide (B) salbutamol
(C) Formoterol (D) Pyridostigmine

24. The absorbent property of cotton is rendered by treating the comber waste with :
(A) Caustic soda and soda ash solution
(B) Sodium hypochlorite solution
(C) Dilute Hydrochloric solution
(D) A mixture of HNO_3 and potassium chlorate
25. Government opium factory is situated at :
(A) Punjab
(B) Neemuch
(C) Bombay
(D) New Delhi
26. Cholesterol is synthesized in the body from :
(A) Acetyl CoA
(B) Lipids
(C) Oxaloacetic acid
(D) Malonic acid
27. Carbidopa and Levodopa are combined in the ratio :
(A) 1 : 2
(B) 1 : 100
(C) 1 : 10
(D) 1 : 20
28. Antirabies serum for human use is obtained from the blood of :
(A) sheep
(B) cow
(C) horse
(D) rabbit
29. A preservative used in ophthalmic preparations :
(A) phenyl mercuric nitrate 0.01%
(B) sodium benzoate 0.2%
(C) methyl paraben 2%
(D) hexachlorophene 0.01%
30. The terpenoid present in clove oil is :
(A) Geraniol
(B) Menthol
(C) Cineole
(D) Eugenol
31. License for the manufacture of medicinal and toilet preparations (in bond) are issued by :
(A) Drug inspector
(B) Drugs controller of the state
(C) Excise commissioner of the state
(D) State Pharmacy Council

32. Amino acid from which epinephrine is synthesized :
(A) Arginine (B) Phenyl alanine
(C) Tyrosine (D) Tryptophan
33. A drug which cause gingival hyperplasia as adverse effect is :
(A) Chlorpromazine (B) Phenytoin
(C) Phenobarbitone (D) Phenelzine
34. Enfleurage is a method for extraction of :
(A) Fixed oils (B) Resins
(C) Delicate perfumes (D) Gums
35. Malfunction of this endocrine gland cause acromegaly :
(A) Adrenal (B) Pituitary
(C) Thyroid (D) Parathyroid
36. Largest organ in the body is :
(A) Liver (B) Skin
(C) Bone (D) Lungs
37. Death due to cardiac arrest in pigeon is a bioassay method for :
(A) adrenaline (B) heparin
(C) d-tubocurarine (D) digitalis
38. An unorganized drug having astringent property is :
(A) Chalmogra oil (B) Black catechu
(C) Guggul (D) Benzoin
39. IR spectrum of an organic liquid can be taken by placing it between two pellets made of :
(A) KBr (B) KCl
(C) NaBr (D) AgNO₃
40. The inactive forms of enzymes are called :
(A) co-factors (B) co-enzymes
(C) apoenzymes (D) zymogens

41. Following are the actions of Quinine except :
(A) Antipyretic (B) Skeletal muscle relaxant
(C) Antimalarial (D) Antiepileptic
42. In the assay of Boric acid, the agent added to increase the acidic nature of boric acid is :
(A) hydrochloric acid (B) glycerin
(C) acetic acid (D) dilute nitric acid
43. One of the following receptor is inhibitory in nature :
(A) NMDA (B) AMPA
(C) Kainate (D) GABA
44. Central Drug Laboratory is established at :
(A) Ghaziabad (B) Mumbai
(C) Lucknow (D) Calcutta
45. Stomata in senna leaf is :
(A) Rubiaceous (B) Dicytic
(C) Anomocytic (D) Anisocytic
46. ALT and AST levels are related to the activity of :
(A) Kidney (B) Spleen
(C) Liver (D) Heart
47. Assay method for Thiamine Hydrochloride I.P is :
(A) Gravimetry (B) Flurimetry
(C) Cerrimetry (D) Non- aqueous titrimetry
48. Diosgenin is a :
(A) Steroidal sapogenin (B) Terpenoid sapogenin
(C) Quinoline sapogenin (D) None of the above
49. Form 28 C relates to manufacture of :
(A) oral contraceptive (B) blood products
(C) toilet preparation (D) psychotropic drugs

50. Sulphonamide used for local intestinal infection is :
(A) Sulfafurazole (B) Sulphaguanidine
(C) Sulfamethizole (D) Sulphacetamide
51. A penicillin which is betalactamase resistant and acid resistant :
(A) Ampicillin (B) Methicillin
(C) Oxacillin (D) Benzathin Penicillin
52. The reactants for the synthesis of Aspirin are :
(A) Salicylic acid + Acetic anhydride (B) Salicylic acid + Acetic acid
(C) Phenol + Acetic acid (D) Phenol + Acetic anhydride
53. Levigation is a method of :
(A) drying (B) size separation
(C) mixing (D) size reduction
54. A bile acid sequesterant :
(A) benzaifibrate (B) colessevalam
(C) atorvastatin (D) nicotinic acid
55. In arsenic limit test, the product which turn the mercuric chloride paper yellow to brown is :
(A) hydrogen sulphide (B) arsine
(C) sulphur dioxide (D) sulphur trioxide
56. The Pharmacy Council of India is constituted every :
(A) 5 years (B) 10 years
(C) 3 years (D) 6 years
57. Tetracycline inhibit protein synthesis by binding to :
(A) 40 s ribosomal sub unit (B) 50 s ribosomal sub unit
(C) 60 s ribosomal sub unit (D) 30 s ribosomal sub unit
58. Therapeutic Drug Monitoring is indicated for :
(A) Propranolol (B) Phenytoin
(C) Frusemide (D) Diazepam

59. The structural difference between morphine and heroin is that, heroin contains :
(A) Two amino groups at C3 and C6
(B) Acetyl group and hydroxyl group at C3 and C6 respectively
(C) Two hydroxyl groups at C3 and C6
(D) Two acetyl groups at C3 and C6
60. Fluid energy mill works on the principle of :
(A) Attrition and impact
(B) Compression and cutting
(C) Compression and impact
(D) Attrition and compression
61. Clevenger apparatus is used for :
(A) estimation of unsaturation in oils
(B) determine saponification value
(C) extraction of volatile oil
(D) esterification of oils & fats
62. Ototoxicity of aminoglycoside antibiotics is due to its effect on _____ cranial nerve.
(A) 2nd
(B) 5th
(C) 8th
(D) 7th
63. Organism used for Rideal Walker test is :
(A) Streptococcus pyogens
(B) Staphylococcus aureus
(C) Pseudomonas aeruginosa
(D) Salmonella typhi
64. Flame ionization detector is used in :
(A) UV spectroscopy
(B) I.R. spectroscopy
(C) Gas chromatography
(D) Flame photometry
65. A lubricant used in tablet manufacture :
(A) Magnesium stearate
(B) Lactose
(C) Microcrystalline cellulose
(D) Polyvinyl pyrrolidone
66. Hager's reagent is :
(A) 50% iodine solution
(B) Saturated picric acid solution
(C) Saturated potassium iodide solution
(D) Acidic bismuth iodide solution

67. The Indian Pharmacopoeia was edited in the years except in :
(A) 1985 (B) 2010
(C) 1990 (D) 2014
68. Sugar moiety in Oubain glycoside is :
(A) Rhamnose (B) Fructose
(C) Glucose (D) Galactose
69. In Calamine lotion I.P. glycerin act as :
(A) protective (B) spreading agent
(C) humectants (D) adsorbent
70. An antimetabolite anti cancer drug :
(A) Paclitaxel (B) Cyclophosphamide
(C) Busulphan (D) Methotrexate
71. The amber colour of glass containers is due to the presence of :
(A) Tartrazine (B) Iron oxide
(C) Cadmium oxide (D) Coal tar
72. Wavelength of finger print region is :
(A) $2.5 - 8.0 \mu\text{m}$ (B) $8.0 - 15 \mu\text{m}$
(C) $0.2 - 0.35 \mu\text{m}$ (D) $0.4 - 0.8 \mu\text{m}$
73. An indicator used in complexometric titration is :
(A) phenol red (B) methyl orange
(C) murexide (D) bromothymol blue
74. In ointment formulation, macrogol bases are used as :
(A) Hydrocarbon bases (B) Absorption bases
(C) Water soluble bases (D) Water miscible bases
75. Schiff's reagent is used to detect :
(A) ketones (B) aldehydes
(C) alcohols (D) esters

76. List of Ayurvedic poisons is given in schedule :

- | | |
|--------|--------------|
| (A) E1 | (B) X |
| (C) V | (D) F and F1 |

77. One ounce = _____ grains.

- | | |
|--------|---------|
| (A) 30 | (B) 8 |
| (C) 60 | (D) 480 |

78. One reason for 'capping' is :

- | | |
|---|-------------------------------|
| (A) Defective granulation method | (B) Inadequate lubricant use |
| (C) Entrapment of air within the tablet | (D) Overuse of binding agents |

79. Tocopherol is :

- | | |
|---------------|----------------|
| (A) vitamin E | (B) vitamin K |
| (C) vitamin A | (D) vitamin B3 |

80. Example of a prokinetic agent :

- | | |
|-----------------|--------------------|
| (A) ondansetron | (B) metoclopramide |
| (C) cyclizine | (D) omeprazole |

81. Who among the following was the first Governor General of British India?

- | | |
|--------------------------|--------------------|
| (A) Lord Cornwallis | (B) Lord Dalhousie |
| (C) Lord Warren Hastings | (D) Lord Welleslie |

82. In which congress session Jawaharlal Nehru succeeded Motilal Nehru as the president of Indian National Congress :

- | | |
|----------------------------|-----------------------------|
| (A) Bombay session of 1942 | (B) Lahore session of 1929 |
| (C) Madras session of 1887 | (D) Karachi session of 1931 |

83. Which of the following State of India is called the "Botanist paradise"?

- | | |
|------------|-----------------------|
| (A) Assam | (B) Kashmir |
| (C) Sikkim | (D) Arunachal Pradesh |

84. Which among the following is the only Muslim nation in Europe?

- | | |
|--------------------|-------------|
| (A) Albania | (B) Finland |
| (C) Czechoslovakia | (D) Greece |

85. Who among the following ruler built the famous "Charminar"?
- (A) Firus shah Tuglak (B) Shahjahan
(C) Aurangazeb (D) Quli qutub shah
86. The Indian river known as "Tsan po" in Tibetan language is :
- (A) Ganges (B) Narmada
(C) Brahmaputra (D) Indus
87. How many members of Rajyasabha are nominated by the President from amongst the person distinguished in art, literature and social services?
- (A) 10 (B) 6
(C) 16 (D) 12
88. Who among the following raised the slogan "inquilab zindabad" for the first time?
- (A) Surya sen (B) Bhagat singh
(C) V.D. Savarkar (D) Chandrasekhar Azad
89. Which among the following is the first book published in Malayalam?
- (A) Varthamana pusthakam (B) Kudasa pusthakam
(C) Samkshepa vedartham (D) Christhiya vanakkam
90. The famous Thiruvitamkur ruler issued the "temple entry proclamation" in 1936 :
- (A) Sri Chithira Thirunal (B) Srimoolam Thirunal
(C) Swathi Thirunal (D) Sethu Lakshmi bhai
91. Which among the following books is not authored by Sree Narayana guru?
- (A) Jatimimamsa (B) Advaitapanjaram
(C) Darsanamala (D) Sivasatakam
92. Which social reformer of kerala started the weekly "Prabhodakam"?
- (A) Mannath padmanabhan (B) Muhammad Abdulrahman
(C) Kesari Balakrishna pillai (D) Swadeshabhimani Ramakrishnapillai

93. Who among the following was the first Indian selected to Indian Civil Service?
(A) Surendra Nath Bannerjee (B) Ravindranath Tagore
(C) Pherozshah Mehta (D) Badruddin Tyabji
94. The Indian Independence Act passed by the British Parliament in :
(A) August 14, 1947 (B) July 1, 1947
(C) February 12, 1947 (D) July 18, 1947
95. The first president of Kerala Yukthivadi Sangam was :
(A) Pavanan (B) V.T. Bhattathiripad
(C) M.C. Joseph (D) Edamaruku
96. Goa, which was the part of Portugal liberated and integrated into Indian Union in :
(A) 1961 (B) 1962
(C) 1954 (D) 1950
97. Who among the following National leader is nicknamed as the "Diamond of India"?
(A) Dadabhai Naoroji (B) Gopalakrishna Gokhale
(C) Lala Lajpat Rai (D) Bipan Chandrapal
98. Who among the following cricketers took the quickest 5000 runs and overtook the record of former West Indies captain Sir Vivian Richards?
(A) Kumar Sangakkara (B) Virat Kohli
(C) Sachin Tendulkar (D) Kevin Pietersen
99. Who among the following selected for the Odakkuzhal award I 2013?
(A) Balamaniamma (B) Balachandran chulikkad
(C) K.R. Meera (D) Sugathakumari
100. Who among the following is elected as the "Person of the year 2013" by the Time Magazine?
(A) Pope Francis (B) Smt:Sonia Gandhi
(C) Nelson Mandela (D) Barak Obama