

116/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. Which organ comes under poorly perfused organ?
(A) Skin (B) Muscle
(C) Fat (D) Kidneys
2. Dilatant material termed as :
(A) Shear thickening system (B) Shear thinning system
(C) Plastic system (D) Pseudoplastic system
3. Dimethicone is the other name of :
(A) Calamine (B) Titanium dioxide
(C) Silicon oil (D) Zinc stearate
4. Alpha 2 globulin is otherwise known as :
(A) Transcortin (B) Ceruloplasmin
(C) Transferrin (D) Orosomuroid
5. Combined impact and attrition is the working principal of :
(A) Cutter mill (B) Hammer mill
(C) Ball mill (D) Roller mill
6. Lyophilisation is the other term of :
(A) Freeze drying (B) Distillation
(C) Fluidized bed drying (D) Crystallisation
7. BCG vaccine is the living cells of strain of :
(A) Mycobacterium tuberculosis (B) Mycobacterium leprae
(C) Pasteurella pertusis (D) Vibrio cholerae

8. Mean Residence Time (MRT) represents which percentage of intravenous bolus dose to be eliminated ?
- (A) 46.2 (B) 63.2
(C) 50 (D) 73.2
9. Toxoids are bacterial :
- (A) Exotoxin (B) Endotoxin
(C) Agglutinin (D) Precipitin
10. The enzyme which is known as spreading factor ?
- (A) Collagenase (B) Hyaluronidase
(C) Lecithinase (D) Haemolysins
11. The mechanism of absorption of sabin poliovaccine :
- (A) Active transport (B) Passive diffusion
(C) Endocytosis (D) Ion pair transport
12. Rideal walker coefficient test uses a strain of :
- (A) *Salmonella typhi* (B) *Mycobacterium tuberculosis*
(C) *Mycobacterium leprae* (D) *Vibrio cholerae*
13. Drugs having pKa value greater than 8.0 :
- (A) unionized at all pH (B) unionized in stomach pH only
(C) ionized at all pH (D) ionized in stomach pH only
14. Colchicine is used to treat :
- (A) Malaria (B) Gout
(C) Migraine (D) Asthma
15. Marmelosin A, B & C are the chief constituents in :
- (A) Gokhru (B) Amla
(C) Bael (D) Manna
16. Water soluble fraction of starch is :
- (A) Amylose (B) Amylopectin
(C) Cyclodextrin (D) Pectin

17. S-Glycosidic linkage is found in :
- (A) Arbutin (B) Sinigrin
(C) Aloin (D) Indisine
18. Carboxylic acid having alpha hydrogen atom replaced by chlorine in presence of phosphorus is known as :
- (A) Hell- Volhard Zelinsky reaction (B) Etard's reaction
(C) Perkin reaction (D) Wurtz reaction
19. Haemolysis test is for which glycoside ?
- (A) Saponin (B) Thiocynate
(C) Anthraquinone (D) Phenol
20. THC is present in :
- (A) Capsicum (B) Asafoetida
(C) Kaladana (D) Cannabis
21. Mixture exhibit negative deviation from Rault's law :
- (A) Carbon tetra chloride & cyclohexane (B) Ethanol & water
(C) Benzene & ethanol (D) Chloroform & acetone
22. Equipment used for drying milk :
- (A) Spray dryer (B) Vacuum dryer
(C) Tray dryer (D) Tunnel dryer
23. Agent used to measure active tubular secretion is :
- (A) Creatinine (B) Para amino hippuric acid
(C) Inulin (D) Mannitol
24. The antidote for opioid poisoning :
- (A) Bal (B) Naloxone
(C) Atropine (D) Physostigmine

25. Plant constituent used in preparation of mosquito coils :
- (A) Ergot (B) Ephedra
(C) Aconite (D) Pyrethrum
26. Drugs acting directly on the skeletal muscle :
- (A) Succinyl choline (B) Tubocurarine
(C) Gallamine (D) Dantrolene
27. A potassium channel activator is :
- (A) Veratrum (B) Prazosin
(C) Minoxidil (D) None
28. Vitamin B₆ is :
- (A) Biotin (B) Pyridoxine
(C) Thiamine (D) Niacin
29. Chancroid is caused by :
- (A) H. ducrei (B) H. pylori
(C) S. aureus (D) E.coli
30. pKa of sulphacetamide :
- (A) 8.2 (B) 4.8
(C) 5.4 (D) 7.8
31. Drugs used to aid digestion in the git :
- (A) Pepsin (B) Probucol
(C) Gugulipid (D) Pectin
32. Administration of expired tetracyclin results :
- (A) Fanconi syndrome (B) Gray baby syndrome
(C) Stevan-Johnson's syndrome (D) Down's syndrome

33. Metabolite of drug causes methemoglobinaemia :
- (A) Imipramine (B) Dapsone
(C) Paracetamol (D) Nicotine
34. Progestins with androgenic effect :
- (A) Norgestrel (B) Norethynodrel
(C) Norethisterone (D) Ethinodiol diacetate
35. Supplement given for cancer patient who is under methotrexate therapy ?
- (A) Folic acid (B) Folinic acid
(C) Pyridoxine (D) Ascorbic acid
36. Panxoside is the constituent of :
- (A) Ginseng (B) Brahmi
(C) Senega (D) Gokhru
37. Fluid moves in a direction opposite to the sedimentation movement :
- (A) settling (B) elutriation
(C) centrifugation (D) precipitation
38. Coulter current method used for determination of :
- (A) particle shape (B) particle volume
(C) particle size (D) particle density
39. Drug used for ulcerative colitis :
- (A) Kanamycin (B) Sucralfate
(C) Sulfasalazine (D) Cycloserine
40. A moderately sedative anti – histamine :
- (A) Promethazine (B) Hydroxyzine
(C) Clemastine (D) Antazoline

41. Avicel is the trade name of :
- (A) Starch (B) Methyl cellulose
(C) Microcrystalline cellulose (D) Chitosan
42. An oral hypoglycaemic sulphonyl urea drug :
- (A) Phenformin (B) Acarbose
(C) Guargum (D) Tolbutamide
43. Complete separation of top or bottom crowns of a tablet :
- (A) Sticking (B) Capping
(C) Lamination (D) Picking
44. Ceresin is :
- (A) Synchro waxes (B) Ozokerite & paraffin wax
(C) Synchro waxes & ozokerite (D) Ozokerite only
45. A second generation cephalosporin :
- (A) Cephalothin (B) Cefepime
(C) Cefazolin (D) Cefaclor
46. An immunosuppressant which is specific t-cell inhibitors ?
- (A) Cyclosporine (B) Chlorambucil
(C) Muromonab (D) Azathioprine
47. Number of milligrams of potassium hydroxide required to neutralize free acids & saponify esters in 1 gram of fat is :
- (A) Iodine value (B) Water number
(C) Acid value (D) Saponification value
48. Part used to attach valve proper to aerosol container :
- (A) Gasket (B) Stem
(C) Housing (D) Ferrule
49. Standards for disinfectant coming under which schedule ?
- (A) M (B) P
(C) O (D) R

50. Novocaine is the other name of :
- (A) Chlorprocaine (B) Lignocaine
(C) Proparacaine (D) Procaine
51. Presence or absence of functional group can be identified by the spectra :
- (A) Mass (B) NMR
(C) Visible (D) Infrared
52. Warfarin displaced from site one of human serum albumin by :
- (A) Furesamide (B) Phenyl butazone
(C) Disulfiram (D) Cimetidine
53. Agent used as a contrast medium in the X-ray examination of gall bladder :
- (A) Cinnamic acid (B) Iothalamic acid
(C) Iopanoic acid (D) Mandelic acid
54. Biotin is :
- (A) Vitamin C (B) Vitamin E
(C) Vitamin H (D) Vitamin D
55. Most popular eye drop preservative :
- (A) BHA (B) BHT
(C) Methyl paraben (D) Benzalkonium chloride
56. An example of pM indicator :
- (A) Methyl orange (B) Phenolphthalein
(C) Phenyl red (D) Murexide
57. Solvents have both protogenic & protophilic properties :
- (A) Levelling solvent (B) Amphiprotic solvent
(C) Differentiating solvent (D) Aprotic solvent
58. The principle in HPTLC is :
- (A) Absorption (B) Elution
(C) Adsorption (D) Purging

59. Antioxidants used for oil systems :

- (A) Thioglycerol
- (B) Sodium sulfite
- (C) Lecithin
- (D) Sulfur dioxide

60. Mevalonic acid formation is catalysed by the enzyme :

- (A) Acetyl- CoA
- (B) Phosphomevalonate kinase
- (C) Mevalonate kinase
- (D) HMG-CoA reductase

61. Which computer programming language among the given is true object oriented programming language?

- (A) BASIC
- (B) JAVA
- (C) C
- (D) FORTRAN

62. Example for volatile memory :

- (A) CD - ROM
- (B) Hard Disk
- (C) ROM
- (D) RAM

63. 1 MB = :

- (A) 2^{20} Byte
- (B) 2^{10} Byte
- (C) 2^8 Byte
- (D) 2^{12} Bit

64. _____ is a device that converts the digital signals into analog and analog signals into digital.

- (A) LAN Card
- (B) Webcam
- (C) Modem
- (D) SMPS

65. Which one is not an output device?

- (A) Monitor
- (B) Joystick
- (C) Plotter
- (D) Printer

66. $(37)_{10} = (X)_2$:

- (A) $X = 100101$
- (B) $X = 101001$
- (C) $X = 101101$
- (D) $X = 100110$

67. Solaris is a/an:
- (A) Application Software (B) Utility Software
(C) Operating System (D) Microprocessor
68. The first free web based email service is:
- (A) Hotmail (B) Yahooemail
(C) Gmail (D) Rediffmail
69. Malware is a:
- (A) Hardware (B) Firmware
(C) Software (D) None of these
70. Who invented the computer mouse in 1964?
- (A) Larry Page (B) Paul Allen
(C) Steve Jobs (D) Douglas C. Engelbart
71. PARAM is a series of :
- (A) Micro computers (B) Mainframe computers
(C) Mini computers (D) Super computers
72. Topology used in Ethernet LAN is :
- (A) Irregular (B) Complete
(C) Bus (D) Tree
73. Universal gates are :
- (A) OR and AND (B) NAND and NOR
(C) NOT and NAND (D) XOR and NOT
74. Storage capacity of a standard single sided, single layer DVD-R is :
- (A) 700 MB (B) 4.7 GB
(C) 100 MB (D) 8.5 GB
75. _____ is a translator program which translates assembly language program to machine language program.
- (A) Linker (B) Loader
(C) Interpreter (D) Assembler

76. Diagram that represents a process in sequential order :
- (A) Algorithm (B) Flow chart
(C) Stack (D) Queue
77. _____ is a basic data type in C++.
- (A) Int (B) Struct
(C) Class (D) Union
78. Which standard network protocol is used to transfer computer files from one host to another host?
- (A) FTP (B) SMTP
(C) PING (D) TELNET
79. Processed data is known as :
- (A) File (B) Database
(C) Library (D) Information
80. Step which is not involved in software development :
- (A) Documenting (B) Programming
(C) Embedding (D) Testing
81. Mother kerala, "Sleeps with her head on the lap of the Sahyadri clad in green" and her feet pillowed on the crystal ocean sand, kumari at one end and the lord of Gokarna on the other". This poetic language belongs to :
- (A) Pala Narayanan Nair (B) Mahakavi vallathol
(C) O.N.V. Kurup (D) Kumaranasan
82. Rani Gaidiliu, a rebel leader against the British was from :
- (A) Assam (B) Haryana
(C) Bengal (D) Nagaland
83. 'Operation black board project' was introduced by :
- (A) Rajeev Gandhi (B) Narasimha Rao
(C) A.B. Vajpayee (D) H.D. Devagawda

84. A major incident in Kerala, connection with the Quit India movement :
- (A) Payyannur satyagraha
 (B) Wagon tragedy
 (C) Keezhariyur bomb case
 (D) Kakori conspiracy case
85. The 5th 'Brics' conference of March – 2013 was held at :
- (A) Durban (B) Capetown
 (C) Johannes burg (D) Petoria
86. The film 'Gravity' wins seven Oscars, including best director. Who is the director?
- (A) Bruno Delbonnel (B) Alfonso Cuaron
 (C) Catherine Merlin (D) William Chang Suk Ping
87. Name the sailing vessel used by Lt.Cdr. Abhilash Tomy for his solo unassisted non stop circum navigation :
- (A) INS Tarangini (B) INSV Sudarsini
 (C) INSV Mhadei (D) INS Godavari
88. 'Economic history of India' was written by :
- (A) Bipin Chandra (B) M.N. Roy
 (C) A.R. Desai (D) R.C. Dutt
89. The monsoon which brings rain in Kerala during the period October to December is called :
- (A) South West Monsoons (B) South East Monsoons
 (C) North West Monsoons (D) North East Monsoons
90. The first chief election commissioner of India :
- (A) Kalyana Sundaram (B) Nagendra Singh
 (C) Sukumar Sen (D) V.S. Remadevi
91. The Malayalam poetess Sugatha kumari has been chosen for the Saraswathi Samman Award for her poetry collection :
- (A) Ratri mazha (B) Manalezhuthu
 (C) Pathira pookkal (D) Ambala mani

92. 'Samatva samajam' was founded by :
- (A) Vaikunda Swamikal (B) Ayyankali
(C) Sree Ramakrishna Paramahansa (D) Swami Vagbhadananda
93. The National Calender of India is based on the :
- (A) Gupta Era (B) Kollam Era
(C) Saka Era (D) Vikram Era
94. Who has been hailed as the "Father of Modern Kerala Renaissance" ?
- (A) Sree Narayana Guru (B) Rajaram Mohan Roy
(C) Swami Vivekananda (D) Dayananda Saraswathy
95. The First Viceroy of India after Queen's proclamation :
- (A) Lord Rippon (B) Mount Batten
(C) Lord Curson (D) Lord Canning
96. The National Voters day :
- (A) August - 15 (B) January - 25
(C) April - 10 (D) December - 10
97. The country took up the mediation in the Tashkent declaration of 1996:
- (A) Soviet union (B) USA
(C) China (D) France
98. Chattampi swamikal attained Samadhi at :
- (A) Kannan moola (B) Varkkala
(C) Chempazhanthi (D) Panmana
99. The study of coins is called :
- (A) Epigraphy (B) Neumismatics
(C) Paleography (D) Demography
100. The official slogan of FIFA World Cup - 2014 :
- (A) Last stop : Glory (B) It is time for a new champion
(C) All in one rhythm (D) Hope is my road, victory my destiny