

JELET-2019

Subject : DIPLOMA IN PHARMACY

(Booklet Number)

Duration : 2 Hour

Full Marks : 100

INSTRUCTIONS

1. All questions are of objective type having four answer options for each. Only one option is correct. Correct answer will carry full marks 1. In case of incorrect answer or any combination of more than one answer, $\frac{1}{4}$ marks will be deducted.
2. Questions must be answered on OMR sheet by darkening the appropriate bubble marked A, B, C or D.
3. Use only **Black/Blue ball point pen** to mark the answer by complete filling up of the respective bubbles.
4. Mark the answers only in the space provided. Do not make any stray mark on the OMR.
5. Write question booklet number and your roll number carefully in the specified locations of the OMR. Also fill appropriate bubbles.
6. Write your name (in block letter), name of the examination centre and put your full signature in appropriate boxes in the OMR.
7. The OMR is liable to become invalid if there is any mistake in filling the correct bubbles for question booklet number roll number or if there is any discrepancy in the name/signature of the candidate, name of the examination centre. The OMR may also become invalid due to folding or putting stray marks on it or any damage to it. The consequence of such invalidation due to incorrect marking or careless handling by the candidate will be sole responsibility of candidate.
8. Candidates are not allowed to carry any written or printed material, calculator, pen, docu-pen, log table, wristwatch, any communication device like mobile phones etc. inside the examination hall. Any candidate found with such items will be **reported** against & his/her candidature will be summarily cancelled.
9. Rough work must be done on the question paper itself. Additional blank pages are given in the question paper for rough work.
10. Hand over the OMR to the invigilator before leaving the Examination Hall.

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1. Which organ acts as both exocrine and endocrine activities ?
(A) Liver (B) Spleen
(C) Kidney (D) Pancreas

2. Ascorbic acid is used as
(A) Preservative (B) Antiulcer
(C) Antioxidant (D) Antiemetic

3. Dragendorff's reagent is solution of
(A) Potassium mercuric iodide
(B) Potassium cadmium iodide
(C) Potassium bismuth iodide
(D) Potassium iodide

4. Quinine and quinidine differ in
(A) Chemical structure
(B) Solubility
(C) Rotating the plane of polarised light
(D) Obtained from different plant

5. All are non-essential amino acid, except :
(A) Tyrosine (B) Serine
(C) Glycine (D) Valine

6. Foxglove leaf is a synonym of
(A) Digitalis (B) Senna
(C) Vinca (D) Vasaka

7. Which one is β -lactamase inhibitor ?
(A) Pantothenic acid (B) Clavulanic acid
(C) Ethacrynic acid (D) Hexadecanoic acid

8. Opium is detected by testing the presence of
 (A) Morphine (B) Narcotine
 (C) Meconic acid (D) Papaverine
9. Which one of these antihistaminic drugs is used as appetite stimulant ?
 (A) Promethazine hydrochloride (B) Pheniramine maleate
 (C) Fexofenadine (D) Cyproheptadine
10. Two polypeptide chain in insulin is linked together by
 (A) Hydrogen bond (B) Disulphide bond
 (C) Covalent bond (D) Nitrogen bond
11. The main requirements of eye drop is that
 (A) Isotonic (B) Sterile
 (C) Free from foreign particles (D) All of these
12. Green tea contains
 (A) Protocatechuic acid (B) Catechol
 (C) Tannic acid (D) Vitamin C
13. The role of Vitamin E is as an
 (A) Antithrombotic (B) Antihemorrhagic
 (C) Antixerophthalmic (D) Antisterility
14. FT-IR analysis of a sample is done to detect the
 (A) Miscibility studies
 (B) Solubility studies
 (C) Interaction studies between functional groups
 (D) Surface morphology studies
15. Which one is wall less bacterium ?
 (A) *Rickettsiae* (B) *E. coli*
 (C) *Mycoplasma* (D) *P. notatum*

16. Chemical name of Vitamin K is
(A) Menadione (B) Thiamine
(C) Ascorbic acid (D) Ionositol
17. Which one is obligate parasite ?
(A) *Vibrio cholerae* (B) *Clostridium tetani*
(C) *Treponema pallidum* (D) *Bacillus subtilis*
18. Mendel's paint contains
(A) Ag (B) Zn
(C) Sn (D) I₂
19. Which barrier prevents the entry of Dopamine in the treatment of parkinsonism ?
(A) Blood brain barrier (B) Placental barrier
(C) Cerebrospinal fluid barrier (D) Intestinal fluid
20. Tropane ring containing alkaloid is obtained from
(A) Belladonna (B) Ephedra
(C) Ergot (D) Vinca
21. Which of the following compound follows competitive enzyme inhibition due to structural similarities ?
(A) Amoxycillin and clavulanic acid (B) Levodopa and carbidopa
(C) Penicillin and probenecid (D) Sulfamethoxazole and trimethoprim
22. Aloe belongs to family
(A) Apocynaceae (B) Rubiaceae
(C) Solanaceae (D) Liliaceae
23. The popular IUCD is
(A) Condom (B) Copper T
(C) Foam tablet (D) Cream

24. Dioctyl Sodium sulfosuccinate is used in tooth paste as
 (A) Sweetening agent (B) Surface active agent
 (C) Humectant (D) Binder
25. Caffeine is
 (A) 3,7-dimethyl xanthine (B) 1,3-dimethyl xanthine
 (C) 1,3,7-trimethyl xanthine (D) 1,7-dimethyl xanthine
26. List of different diseases in which a drug may not cure under the Drugs and Cosmetics Rule, 1945 is given under
 (A) Schedule-C and – C1 (B) Schedule-J
 (C) Schedule-O (D) Schedule-P
27. In the limit test of arsenic, which instrument is used to detect the impurities in pharmaceuticals ?
 (A) Gutzeit apparatus (B) Nessler cylinder
 (C) Kipp's apparatus (D) Deionizer
28. Tetracycline group of drugs are contraindicated with antacids due to
 (A) Conjugation (B) Hydroxylation
 (C) Chelation (D) Oxidation
29. Which of the alkaloids are liquid and volatile in nature ?
 (A) Nicotine and coniine (B) Morphine and papaverine
 (C) Atropine and quinine (D) Vincristine and vinblastine
30. Pharmaceutical Products from biological origin should be stored in
 (A) -4°C (B) 0°C
 (C) above 20°C (D) 2 to 10°C
31. A suicide enzyme is
 (A) Lipoxygenase (B) Phospholipase A1
 (C) Cyclooxygenase (D) Phospholipase A2

32. Statin group of drugs are used in the treatment of
(A) Osteoarthritis (B) Xerophthalmia
(C) Parkinsonism (D) Atherosclerosis
33. How many volumes of the latest edition of I.P., 2018 ?
(A) Three (B) Five
(C) Four (D) Six
34. Which antiviral drug used in the treatment of Parkinsonism ?
(A) Acyclovir (B) Amantadine
(C) Zidovudine (D) Azadirachtin
35. Pyrogen is
(A) Endotoxin of Gram Negative bacteria
(B) Exotoxin of Gram Positive bacteria
(C) Interferon
(D) Bacterial metabolites
36. Acute apex and asymmetrical leaf base is found in the leaf of
(A) Vasaka (B) Vinca
(C) Digitalis (D) Senna
37. Which one is morphine antagonist ?
(A) Codeine (B) Nalorphine
(C) Prostaglandin (D) Pethidine
38. Diethylcarbamazine citrate is used in the treatment of
(A) Leprosy (B) Dengue
(C) Malaria (D) Filariasis
39. The most essential fatty acid is
(A) Palmitic acid (B) Linolenic acid
(C) Arachidonic acid (D) Stearic acid

40. Protein energy malnutrition causes
(A) Marasmus (B) Obesity
(C) Diabetes (D) Cancer
41. Largactil is a common name for
(A) Prochlorperazine (B) Chlorpromazine
(C) Perphenazine (D) Promethazine
42. The constituent of a vital enzyme carbonic anhydrase is
(A) Manganese (B) Calcium
(C) Zinc (D) Iodine
43. The diagnostic agent 'propylidone' is used for
(A) Urography (B) Bronchography
(C) Arteriography (D) Myelography
44. Dysphagia means
(A) Difficulty in urination (B) Difficulty in defecation
(C) Difficulty in breathing (D) Difficulty in swallowing
45. Lignified trichomes are identifying characteristic feature of
(A) Datura (B) Nux-Vomica
(C) Digitalis (D) Senna
46. Which drug is uterine smooth muscle relaxant ?
(A) Dexfenfluramine (B) Lactulose
(C) Isoxsuprine (D) Ramipril
47. Active form of levodopa is
(A) Carbidopa (B) Dopamine
(C) Epinephrine (D) Nor-adrenaline

48. Heparin is a
(A) Protein (B) Homopolysaccharide
(C) Heteropolysaccharide (D) Fat
49. Michaelis-Menten equation is related to
(A) Enzyme activity (B) Glomerular filtration rate
(C) Renal blood flow (D) Pulmonary ventilation
50. Uneven colour distribution on tablet surface is known as
(A) Mottling (B) Picking
(C) Sticking (D) Capping
51. Sodium citrate in ORS acts as
(A) Systemic acidifier (B) Systemic alkalinizer
(C) Mood stabilizer (D) Thirst quenching
52. Glomerular filtration rate (GFR) is measured by
(A) Para-aminohippuric acid (B) Glucose
(C) Lactose (D) Inulin
53. Barium sulphate is a
(A) Cathartic (B) Radiopaque substance
(C) Protective (D) Fecal softener
54. Mixing of quinine and salicylate, the following type of incompatibility occur :
(A) Chemical incompatibility (B) Therapeutic incompatibility
(C) Physical incompatibility (D) Liquefaction incompatibility
55. First Indian Pharmacopoeia was published in
(A) 1955 (B) 1966
(C) 1976 (D) 1980

56. Hermetically sealed container
 (A) protects loss of product during handling.
 (B) is impervious to air.
 (C) is light resistant.
 (D) prevent loss of product from effervescence.
57. Amelias induced by thalidomide is
 (A) Allergic disease (B) Idiosyncratic disease
 (C) Teratogenic disease (D) Neoplastic disease
58. Ergot preparations are useful in migraine due to its
 (A) Oxytocic action (B) Vasoconstriction action
 (C) α -receptor blocking action (D) Muscarinic action
59. The ideal antiseptic concentration of ethyl alcohol is
 (A) 70 % (B) 30%
 (C) 50 % (D) 95 %
60. Red colour of Tr. Card. Co. is due to the presence of
 (A) Zinc oxide (B) Red oxide
 (C) Amaranth (D) Cardamom
61. Following constituents are antitussive, but which one is addicting ?
 (A) Glycyrrhizin (B) Vasicine
 (C) Tolu balsam (D) Codeine
62. Select the beneficial bacterium of the followings :
 (A) *S. typhi* (B) *L. mesenteroides*
 (C) *E. coli* (D) *C. botulinum*
63. Unwanted effect of isoniazid is
 (A) Megaloblastic anaemia (B) Hemolytic anaemia
 (C) Aplastic anaemia (D) Iron deficiency anaemia

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64. Sodium metabisulfite is used in pharmaceutical preparation as
(A) Oxidant (B) Reductant
(C) Antimicrobial (D) Tonicity enhancer
65. Which of the following is autoimmune disease ?
(A) Congestive heart failure (B) Cholelithiasis
(C) Gray baby syndrome (D) Myasthenia gravis
66. Penicillamine is an antidote for
(A) Copper poisoning (B) Penicillin overdose
(C) Iron poisoning (D) Alkali poisoning
67. Surgical dressings are sterilized by
(A) Dry heat sterilization (B) Gaseous sterilization
(C) Radiation sterilization (D) Moist heat sterilization
68. Metabolic acidosis is treated by
(A) Ammonium chloride (B) Sodium chloride
(C) Sodium bicarbonate (D) Sodium carbonate
69. Which one of these has smooth muscle relaxant property ?
(A) Dobutamine (B) Meteraminol
(C) Dexedrine (D) Isoxsuprine
70. Isosorbide dinitrate is usually administered by
(A) Sublingual route (B) Oral route
(C) Intravenous route (D) Subcutaneous route
71. Mycosis is related to
(A) Viral infection (B) Bacterial infection
(C) Fungal infection (D) Nosocomial infection

72. Which place is not involved for the import of drugs by sea into India ?
(A) Goa (B) Kolkata
(C) Mumbai (D) Chennai
73. Dry syrups are preferred to liquid syrups
(A) because they need not be packed in bottle.
(B) because they are easy to administer.
(C) because they are economical.
(D) because of stability during storage.
74. Small salaried people open
(A) Fixed deposit (B) Savings deposit
(C) Recurring deposit (D) Current deposit
75. The volume of injection should not exceed 10 ml in
(A) Intravenous (B) Intramuscular
(C) Both (A) and (B) (D) Intradermal
76. Combination therapy is adopted in the treatment of tuberculosis
(A) To increase the activity of each drug (B) To increase the spectrum
(C) To reduce the toxicity (D) To reduce the bacterial resistance
77. Steroidal antibiotic is
(A) Kanamycin (B) Fusidic acid
(C) Gentamicin (D) Polymyxin
78. In iodometric titration which indicator is used ?
(A) Soluble starch (B) Phenol red
(C) Methyl blue (D) Bromothymol blue

79. In limit test for iron citric acid is used because it
 (A) Maintains pH
 (B) Prevent precipitation of iron with ammonia
 (C) Acts as an oxidant
 (D) Reduces surface tension
80. Erythropoietin is a hormone which is secreted from
 (A) Lungs (B) Liver
 (C) Kidney (D) Bone marrow
81. Calamine chemically is
 (A) $ZnCO_3$ (B) $Zn(NO_3)_2$
 (C) $Zn(OH)_2$ (D) $ZnSO_4$
82. Mucus is secreted from
 (A) Chief cell (B) Oxyntic cell
 (C) Goblet cell (D) Paracrine cell
83. Polyvinylpyrrolidone (PVP) is used in the tablets as
 (A) Color modifier (B) Glidant
 (C) Binder (D) Disintegrating agent
84. Penicillin shows antimicrobial activity by
 (A) Inhibiting cell wall synthesis (B) Inhibiting Protein synthesis
 (C) Perforation of cell membrane (D) Alkylation of DNA
85. For chloroquine resistant malaria which drug is given ?
 (A) Primaquine (B) Sulfadoxine
 (C) Quinine (D) Proguanil
86. Which one possesses antithrombotic activity ?
 (A) Piroxicam (B) Phenylbutazone
 (C) Aspirin (D) Paracetamol

87. Registration of Pharmacist in State Pharmacy Council is valid upto
(A) 31st March
(B) One year from the date of registration
(C) 31st December of the year of registration
(D) Five years
88. The request from a physician to a pharmacist to dispense a drug is called as
(A) Order
(B) Prescription
(C) Case sheet
(D) Instruction manual
89. Sterile powder for injection is categorized under
(A) Solid dosage form
(B) Liquid dosage form
(C) Semisolid dosage form
(D) Implants
90. Which order is always followed by Radioactivity?
(A) Second order
(B) Third order
(C) Zero order
(D) First order
91. Liquid oral preparation containing concentrated aqueous solution of sucrose is called as
(A) Lotion
(B) Emulsion
(C) Syrup
(D) Tincture
92. Individual member of androecium is called as
(A) Carpel
(B) Stamen
(C) Sepal
(D) Perianth
93. The Central Pharmacopoeia Laboratory is located at
(A) Delhi
(B) Mumbai
(C) Kasauli
(D) Ghaziabad

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94. Example of antidiuretic hormone is
(A) Vasopressin (B) Oxytocin
(C) Insulin (D) Glucagon
95. Sennoside A and Sennoside B is used as
(A) Purgative (B) Anthelmintic
(C) Diuretic (D) Astringent
96. In Clerk's formula, weight is mentioned as
(A) pound (B) gram
(C) kilogram (D) grain
97. Following are the examples of O/W emulsion, except :
(A) Milk (B) Shaving cream
(C) Cold cream (D) Vanishing cream
98. Cold cream is also known as
(A) Foundation cream (B) Soft cream
(C) Skin moisturizer (D) Skin protective
99. Veegum is a/an
(A) Polyol (B) Organic gum
(C) Synthetic gum (D) Clay
100. Suppositories used for ear infection are called
(A) Rockets (B) Cones
(C) Bougies (D) Pessaries