



Duration: 2 Hours

No. of MCQ : 100

Full Marks: 120

INSTRUCTIONS

1. All questions are of objective type having four answer options for each.
2. Category-1 MCQ : Carry 1 mark each and only one option is correct. In case of incorrect answer or any combination of more than one answer, $\frac{1}{4}$ mark will be deducted.
3. Category-2 MCQ : Carry 2 marks each and one or more option(s) is/are correct. If all correct answers are not marked and no incorrect answer is marked, then score = $2 \times$ number of correct answers marked \div actual number of correct answers. If any wrong option is marked or if any combination including a wrong option is marked, the answer will be considered wrong, but there is **no negative marking** for the same and zero mark will be awarded.
4. Questions must be answered on OMR sheet by darkening the appropriate bubble marked A, B, C, or D. Question booklet series code (A, B, C, or D) must be properly marked on the OMR.
5. Use only **Black/Blue ball point pen** to mark the answer by complete filling up of the respective bubbles.
6. Write question booklet number and your roll number carefully in the specified locations of the **OMR**. Also fill appropriate bubbles.
7. Write your name (in block letter), name of the examination center and put your full signature in appropriate boxes in the OMR.
8. 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 center. 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.
9. Candidates are not allowed to carry any written or printed material, calculator, 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** and his/her candidature will be summarily cancelled.
10. Rough work must be done on the question paper itself. Additional blank pages are given in the question paper for rough work.
11. Hand over the OMR to the invigilator before leaving the Examination Hall.



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SPACE FOR ROUGH WORK



PAPER – II (FOR PHARMACY CANDIDATES)

(Carry 1 mark each. Only one option is correct. Negative marks : – ¼)

1. Pore size of 0.22 μ membrane filter is validated by-
(A) *Serratia marcescens* (B) *Escherichia coli*
(C) *Pseudomonas pseudoflava* (D) *Brevundimonas diminuta*
2. Antibody is a
(A) Carbohydrate (B) Protein
(C) Glycoprotein (D) Lipo-protein
3. ATP is a-
(A) Neucleotide (B) Neucleoside
(C) Phosphate (D) Phosphodiesterase
4. Which of the following is a Spirochaete ?
(A) *Helicobacter pylori* (B) *Treponema pallidum*
(C) *Mycobacterium tuberculosis* (D) *Neisseria gonorrhoeae*
5. Direct ELISA which determines-
(A) Antigen (B) Antibody
(C) Antigen & Antibody both (D) Monoclonal antibody
6. Integrity of HEPA filter is tested by-
(A) CO₂ gas (B) Dioctyl phthalate smoke
(C) Helium gas (D) Poly alpha olefin smoke
7. Individual member of androecium is called as
(A) Carpel (B) Stamen
(C) Sepal (D) Petal
8. Protein energy malnutrition causes
(A) Marasmus (B) Obesity
(C) Diabetes (D) Cancer



9. Glycosides are condensation products of
 (A) Sugar + aglycone (B) Sugar + protein
 (C) Protein + aglycone (D) Fats + aglycone
10. Koplik's Spot related to which disease ?
 (A) Pox (B) Measels
 (C) Typhoid (D) Rabies
11. Chloroquine is deposited in
 (A) Kidney (B) Liver
 (C) Retina (D) Teeth
12. Which of the following is absent in eukaryotic cell ?
 (A) Golgi structure (B) Endoplasmic Reticulum
 (C) Mitochondria (D) Mesosome
13. For methanol poisoning specific antidote is
 (A) Fomepizole (B) Desferrioxamine
 (C) BAL (D) Sodium nitrite
14. Selenium sulfide is an
 (A) antimicrobial (B) antiprotozoal
 (C) antidandruff (D) anthelmintic
15. Which of the following is a systemic antacid ?
 (A) $Mg(OH)_2$ (B) $Al(OH)_3$
 (C) $NaHCO_3$ (D) Megaldrate
16. How many numbers of carbon present in undecylenic acid ?
 (A) 19 (B) 11
 (C) 10 (D) 16



17. Who is the chairman of Drugs and Technical Advisory Board (DTAB) ?
 (A) Drug Controller of India
 (B) President of PCI
 (C) Director General of Health Services
 (D) Director of Central Drug Laboratory, Kolkata
18. Simple syrup IP contains _____ sucrose.
 (A) 66.7% w/v
 (B) 85% w/v
 (C) 70% w/w
 (D) 66.7% w/w
19. *Clostridium tetani* produces
 (A) Exotoxin
 (B) Endotoxin
 (C) Pyrogen
 (D) None of these
20. One nanometer (nm) is equal to
 (A) 10^{-2} cm
 (B) 10^{-4} cm
 (C) 10^{-7} cm
 (D) 10^{-8} cm
21. Barium meal is used for the visualization of
 (A) Gall bladder
 (B) Intestinal tract
 (C) Heart
 (D) Liver
22. Condy's lotion is prepared from
 (A) Potassium permanganate
 (B) Potassium dichromate
 (C) Potassium phthalate
 (D) Potassium bromide
23. Agent added to toothpaste to keep it in moist form is known as
 (A) Humectant
 (B) Binders
 (C) Abrasives
 (D) Detergents
24. Heart receives cholinergic stimulation through _____ nerve.
 (A) Vagus
 (B) Trigeminal
 (C) Spinal Accessory
 (D) Trochlear



25. Which heterocyclic ring is present in Amiloride ?
(A) Pyrimidine ring (B) Pteridine ring
(C) Pyrazine ring (D) Pyridine
26. Which is the mill used to obtain ointments of the smooth texture of consistency ?
(A) Ball mill (B) Cutter mill
(C) Edge runner mill (D) Triple roller mill
27. Colligative properties are useful in determining
(A) Tonicity (B) Solubility
(C) Sterility (D) Stability
28. Which of the following is a prodrug ?
(A) Hydralazine (B) Clonidine
(C) Captopril (D) Enalapril
29. Tannins give colour with iron compound
(A) Pale yellow (B) Blue black
(C) Light pink (D) Orange
30. The purpose of Phase I and Phase II metabolism of drug to make the metabolite
(A) More polar (B) Less polar
(C) More hydrophobic (D) Less hydrophilic
31. Pharmaceutical products from biological origin should be stored in
(A) -4°C (B) 0°C
(C) above 20°C (D) 2°C to 10°C
32. Which one of the formulations is a pressurized drug delivery system ?
(A) Nanosomes (B) Aerosols
(C) Implants (D) Liposomes



33. Cobalt is a constituent of
(A) Folic acid (B) Vitamin B₁₂
(C) Biotin (D) Vitamin K
34. How many volumes of the latest edition of I.P 2018 ?
(A) Five (B) Six
(C) Four (D) Three
35. Which one of the following is poison nut ?
(A) Flax seed (B) Bahera
(C) Gokhru (D) Nux vomica
36. FT-IR analysis is done to detect
(A) Interaction study (B) Compatibility study
(C) Incompatibility study (D) Morphology study
37. Ryle's tube is used for the purpose of
(A) Urination (B) Feeding
(C) Bronchoscopy (D) Endoscopy
38. The shape of the caplet is
(A) Spherical (B) Triangular
(C) Oval (D) Elongated
39. Zn is used with ORS- why ?
(A) Astringent (B) Constipation
(C) Re-epithelization of mucous lining (D) Antiseptic
40. The family of Glycyrrhiza is
(A) Solanaceae (B) Apocynaceae
(C) Leguminosae (D) Leguminoceae



41. Uneven colour distribution on tablet surface is known as
(A) Mottling (B) Picking
(C) Sticking (D) Capping
42. Ergot is
(A) Fruit (B) Seed
(C) Bacteria (D) Fungus
43. Which one is trophic hormone of testosterone ?
(A) TSH (B) GTH
(C) STH (D) ACTH
44. Diacetyl morphine is
(A) Heroine (B) Heroin
(C) Codeine (D) Noscapine
45. Which one of the following is best effective dilution of alcohol as an antimicrobial agent ?
(A) 95% (B) 50%
(C) 70% (D) 100%
46. Washing soda is the common name for
(A) Calcium carbonate (B) Calcium bicarbonate
(C) Sodium carbonate (D) Sodium bicarbonate
47. Poise is the unit of
(A) Pressure (B) Viscosity
(C) Luminous intensity (D) Inductance
48. The disease caused by the deficiency of protein is known as
(A) Goitre (B) Kwashiorkar
(C) Hypoklemlia (D) Dermatosls



49. Which antileprotic has anti-inflammatory action ?
(A) Dapsone (B) Rifampin
(C) Ethionamide (D) Clofazimine
50. Which local anaesthetic is used for gastric irritation ?
(A) Procaine (B) Amethocaine
(C) Oxethazaine (D) Bupivacaine
51. Non-selective beta blocker given to hypertensive patient may create
(A) Excessive micturition (B) Loose motion
(C) Asthma (D) Hepatitis
52. For proper wetting of solids by liquids, the contact angle should be nearly
(A) Zero (B) 90°
(C) 180° (D) 270°
53. Penicillin is obtained from
(A) Mould (B) Bacteria
(C) Protozoa (D) Yeast
54. 60gm NaOH dissolved in 100ml water. What is the normality of solution ?
(A) 1.5 (N) (B) 15 (N)
(C) 2 (N) (D) 150 (N)
55. Residue remaining after extraction is called
(A) Menstruum (B) Rouphage
(C) Marc (D) Mark
56. List of diseases and ailments which a drug may not purport to prevent or cure or make claims to prevent or cure under the Drugs and Cosmetics Rule, 1945 is given under:
(A) Schedule K (B) Schedule J
(C) Schedule M (D) Schedule S



57. Family DOT procedure is used for the treatment of
(A) Leprosy (B) HIV-AIDS
(C) TB (D) STDs
58. 1 gm. is equal to
(A) 5 gr. (B) 10 gr.
(C) 15 gr. (D) 15.432 gr.
59. One of the official standard for uncoated tablets as per IP is
(A) Shape weight (B) Friability
(C) Size (D) Uniformity of weight
60. If the Carr's index of a powder is 10% then the type of powder flow is
(A) Poor (B) Excellent
(C) Very poor (D) Good
61. Study of fungi is known as
(A) Parasitology (B) Phycology
(C) Mycology (D) Protozoology
62. Which of the following statement is true about vaccines ?
(A) It is antigenic preparation administered to provide active immunity.
(B) It is antigenic preparation administered to provide passive immunity.
(C) It is antibody preparation administered to provide active immunity.
(D) It is antibody preparation administered to provide passive immunity.
63. Ninhydrin Reaction is specified for
(A) GABA (B) Dopamine
(C) Alanine (D) Stearic acid
64. Beta carotene is
(A) Active form of Vit A (B) Provitamin of Vit A
(C) Active form of Vit E (D) Provitamin of Vit K



65. Haemoglobin contains _____ heterocycle.
(A) Pyrrole (B) Pyrrolidine
(C) Pyridine (D) Piperidine
66. All are pharmacokinetic parameters except-
(A) Distribution (B) Mode of action
(C) Metabolism (D) Excretion
67. Henderson-Hasselbalch equation is used to determine the
(A) Particle size (B) pKa
(C) Density of liquid (D) Sedimentation rate
68. Strontium chloride is used as
(A) Astringent (B) Antiseptic
(C) Desensitizing agent (D) Deactivating agent
69. Sun ray is good sterilizing agent due to-
(A) X-ray (B) Gamma ray
(C) VIBGYOR (D) UV-ray
70. Mandel's point contains
(A) I₂ (B) Zn
(C) Sn (D) Hg
71. Keller Kiliani test used for identification of :
(A) Fructose (B) Maltose
(C) Deoxy sugar (D) Glucose
72. German measles caused by
(A) Rubella virus (B) Rubeola virus
(C) *Varicella zoster* (D) Variola virus



73. Phenobarbitone is a/an
- (A) Acidic drug (B) Basic drug
(C) Neutral drug (D) Amphoteric drug
74. Composition of Molisch reagent is
- (A) Alpha naphthol + sulphuric acid (B) Beta naphthol + sulphuric acid
(C) Naphthylamine + sulphuric acid (D) Phenol + sulphuric acid
75. A semi-solid preparation containing excess finely divided solids is a
- (A) Cream (B) Paste
(C) Jellies (D) Liniment
76. An 'orphan drug' :
- (A) A very cheap drug
(B) A drug which has no therapeutic use
(C) A drug needed for treatment or prevention of a rare disease
(D) A drug which acts on orphanic receptors
77. At normal pressure, freezing point of blood plasma is :
- (A) -0.41°C (B) -0.52°C
(C) -0.05°C (D) -0.5°C
78. Which diuretic have steroid nucleus ?
- (A) Amiloride (B) Chlorthalidone
(C) Triamterene (D) Spironolactone



79. Which of the following drug acts by inhibiting an enzyme in the body ?
(A) Phenobarbitone (B) Allopurinol
(C) Levodopa (D) Metoclopramide
80. In skin, which macrophage cell is present ?
(A) Kupffer Cell (B) Osteoclast
(C) Osteocyte (D) Dendritic cell
81. Which of the following does not change with the change in temperature ?
(A) Molarity (B) Normality
(C) Molality (D) Formality
82. "Inotropic effect" means
(A) Change of rate of contraction (B) Change of force of contraction
(C) Regulation of conduction velocity (D) All of these
83. Regulation and standards for ophthalmic ointments and solutions is specified in
(A) Schedule M (B) Schedule FF
(C) Schedule O (D) Schedule P
84. Tetracycline group of drug is contraindicated with milk and milk products due to
(A) Conjugation (B) Hydroxylation
(C) Chelation (D) Oxidation
85. Which one is a prokinetic ?
(A) Levosulbutamol (B) Levocetizine
(C) Levodopa (D) Levosulpiride



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86. The colour of Tr. Card. Co. is red, due to the presence of
(A) Amaranth (B) Zn
(C) Red oxide (D) Cardamom
87. Ocusert a dosage form device is placed in
(A) Tongue (B) Rectum
(C) Vagina (D) Conjunctive
88. The primary organ for excretion of most drug is
(A) Kidney (B) Liver
(C) Lungs (D) Skin
89. The colour of KI is
(A) Yellow (B) Brown
(C) White (D) Red
90. UV absorption range is:
(A) 200-400 nm (B) 200-800 nm
(C) 400-700 nm (D) 300-500 nm
91. Sodium metabisulphate is used as
(A) Buffer (B) Antiemetic
(C) Antioxidant (D) Antiulcer
92. How many pairs of cranial nerves do we have ?
(A) 10 pairs (B) 15 pairs
(C) 20 pairs (D) 12 pairs
93. Point out the relationship between Atropine & Pilocarpine.
(A) Agonist (B) Antagonist
(C) Both (A) & (B) (D) Obtained from same plant



94. Which one is capsular fruit with axile placentation ?
(A) Cardamom (B) Datura
(C) Coriander (D) Senna pod
95. Mixing of semisolids is carried out by using
(A) Double cone mixer (B) Rotating cube mixer
(C) Planetary mixer (D) Fluidized bed mixer
96. Which one is nasal decongestant ?
(A) Papaverine (B) Reserpine
(C) Ephedrine (D) Vasicine
97. In Clerk's formula, weight is mentioned as
(A) Pound (B) Gram
(C) Kilogram (D) Grain
98. Following are the examples of O/W emulsion, except
(A) Milk (B) Shaving cream
(C) Cold cream (D) Vanishing cream
99. Dengue is a
(A) Protozoal disease (B) Fungal disease
(C) Viral disease (D) Bacterial disease
100. A 'suicide enzyme' is-
(A) Cyclooxygenase (B) Lipoxygenase
(C) Phospholipase A1 (D) Phospholipase A2



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