

This Question Booklet contains  
16 printed pages

DP-2025

Total Marks : 200  
Time : 150 Minutes

Question  
Booklet  
Code :

A

A  
Seal Sticker

Candidate's  
Seat No. :

Candidate's Signature \_\_\_\_\_ Block Supervisor's Signature \_\_\_\_\_

**DO NOT OPEN QUESTION BOOKLET UNTIL INSTRUCTED.**

INSTRUCTIONS FOR CANDIDATE:

1. Check Number printed on your OMR SHEET and Question Paper with your SEAT No. before answering the questions. Consult block supervisors in case the above mentioned numbers do not match with your seat number.
2. There are two sections in this question paper. There are total 100 questions. For answer of each question A, B, C, D, E options are given in OMR SHEET. In OMR SHEET, there is "E" option. "E" option is for "Not Attempted". If candidate do not wish to answer the question he/she should select "E" option (Not Attempted). All questions are compulsory.

For Example:

Which state of India has the longest sea shore ?

A ☐ B ☐ C ☒ D ☐ E ☐

(A) Maharashtra (B) Tamilnadu

(C) Gujarat (D) Andhra Pradesh

In this example, the right answer is (C). Therefore, the Circle of (C) has been darkened (encoded). Candidate should not give the answer "Gujarat" in writing.

**The options once darkened/answered by candidate cannot be changed.**

3. Candidates are not permitted to leave examination hall during examination.
4. Candidates must strictly enter SEAT NO. in the designated space provided in OMR SHEET as well as Question Paper neatly as soon as they receive the OMR SHEET & Question Paper.
5. Candidates must not write name or put any identification sign/symbol on OMR SHEET. In such case strict disciplinary action will be taken against candidate & will be considered disqualified/ineligible. Only Seat No. must be entered at designated space provided in OMR SHEET.

6. Both, Candidate's & Supervisor's signature must be done on Certificate of OMR SHEET. Unsigned OMR SHEET would not be considered for evaluation.
7. Candidates are not permitted to use or carry with them any kind of literature, guide, hand written notes, or printed books, mobile phone, pagers, smart watches, camera or any electronic gadgets to examination hall.
8. Use of only Non-scientific / Non-programmable calculator shall allow during examination.
9. Candidates are not permitted to talk/discuss in the Examination Hall. Any candidate found violating supervisor's instructions will be disqualified.
10. Candidates must fully darken circle A, B, C, D and E accordingly with Blue / Black ball pen. If answers are marked with any other coloured ball pen, pencil, white ink (whitner), any corrections are done by candidate by means of blade or rubber or whitner will not be considered for evaluation.
11. Candidates may carry QP with them after Examination.
12. For correct answer 2 (Two) marks will be given.

**For negative marking :**

**If candidate -**

- Gives wrong answer or
  - Darkens more than one option (multi mark) as answer for one question
- in OMR SHEET then 0.50 marks will be deducted.**

**If candidate does not want to answer a particular question and marks (E) or leave the option without encoding on OMR sheet, then no minus marks will be given.**

Submit the OMR SHEET to the block supervisor after completion of examination without fail before leaving examination hall, failure to do so will result in disqualification of the candidature for the examination and disciplinary action will be taken against such candidate.

**SPACE FOR ROUGH WORK / રફ કામ માટેની જગ્યા**

### **SECTION - 1**

1. What is the primary function of the glomerulus ?  
(A) Reabsorption of nutrients (B) Filtration of blood  
(C) Secretion of waste products (D) Concentration of urine
2. Which of the following hormone regulates water reabsorption in the collecting ducts ?  
(A) Antidiuretic hormone (ADH) (B) Aldosterone  
(C) Renin (D) Erythropoietin
3. Which of the following hormones are secreted by adrenal medulla ?  
(A) Insulin and glucagon (B) Thyroxine and calcitonin  
(C) Cortisol and aldosterone (D) Epinephrine and norepinephrine
4. Which of the following gland produces melatonin that regulates the sleep-wake cycle ?  
(A) Thyroid gland (B) Pituitary gland  
(C) Pineal gland (D) Adrenal gland
5. \_\_\_\_\_ enzyme is found in saliva, which involve in beginning of the carbohydrates digestion ?  
(A) Pepsin (B) Amylase  
(C) Lipase (D) Trypsin
6. Which part of the brain controls the basic rhythm of breathing ?  
(A) Cerebrum (B) Hypothalamus  
(C) Medulla oblongata (D) Cerebellum
7. Which of the following is an example of connective tissue ?  
(A) Skin (B) Cardiac muscle  
(C) Neurons (D) Cartilage
8. What is the name of the valve that prevents the backflow of stomach contents into the esophagus?  
(A) Lower esophageal sphincter (B) Pyloric sphincter  
(C) Ileocecal valve (D) Duodenal valve
9. Which of the following blood vessel is carrying deoxygenated blood ?  
(A) Coronary artery (B) Pulmonary artery  
(C) Pulmonary vein (D) Carotid artery

10. Which part of the neuron receives incoming signals from other neurons ?  
(A) Synaptic terminal (B) Axon  
(C) Soma (D) Dendrites
11. What is the primary site of fertilization in the female reproductive system?  
(A) Uterus (B) Cervix  
(C) Fallopian tube (D) Ovary
12. Which of the following is an example of a hinge joint ?  
(A) Hip (B) Elbow  
(C) Shoulder (D) Wrist
13. \_\_\_\_\_ structure in the male reproductive system, stores and matures sperm ?  
(A) Epididymis (B) Vas deferens  
(C) Seminal vesicle (D) Prostate gland
14. A thin and transparent outer layer of the heart wall is known as:  
(A) Myocardium (B) Endocardium  
(C) Epicardium (D) Mesocardium
15. What is the primary function of the epiglottis ?  
(A) To prevent the entry of food in trachea  
(B) To prevent the entry of food in nasal cavity  
(C) To humidify incoming air  
(D) To produce mucus
16. Which of the following cell represents the agranular leukocytes?  
(A) Neutrophils (B) Monocytes  
(C) Basophils (D) Eosinophils
17. Oral contraceptive pill POP means  
(A) Progesterone Only Pill (B) Progesterone Oestrogen Pill  
(C) Post Coital Pill (D) Progesterone Oral Pill
18. Carcinogen means it may cause  
(A) Cataract (B) Renal Calculi  
(C) Cancer (D) Calcification of Artery

19. Factors affecting Various aspects of health are considered as  
(A) Indicators of health (B) Determinants of health  
(C) Protectors of health (D) All of these
20. Which of the following is false for vaccine?  
(A) Stimulates production of protective antibodies.  
(B) Produces immunity having memory.  
(C) Produces immunity of specific kind.  
(D) Produces naturally acquired immunity.
21. Identify the Odd one from followings (Hint: Method of contraception)  
(A) Condom (B) Vaginal Sponge  
(C) Vaginal ring containing hormones (D) Diaphragm
22. Which gas is present in highest amount in air ?  
(A) Water Vapour (B) Oxygen  
(C) Nitrogen (D) Carbon dioxide
23. Which of the following is mainly transmitted through fecal-oral route?  
(A) Measles (B) Poliomyelitis  
(C) Influenza (D) Chickenpox
24. Decibel is the unit of \_\_\_\_\_.  
(A) Amount of smog in air (B) Frequency of sound waves  
(C) Amount of pollutants in air (D) Intensity of noise
25. Septik tank is a method of \_\_\_\_\_.  
(A) Disposal of human excreta  
(B) Solid waste disposal  
(C) Disposal of environmental pollution  
(D) Removal of microorganism from water
26. DASH diet can be used to control  
(A) Cancer (B) Hepatitis  
(C) Hypertension (D) Haemorrhage

27. Dietary fibre can be used as supplement to control followings except .....
- (A) Obesity (B) Diabetes mellitus  
(C) High blood cholesterol (D) Acute gastritis
28. Which disease is also known as Hensen's disease ?
- (A) Tuberculosis (B) Tetanus  
(C) Leprosy (D) Hepatitis
29. Trachoma mainly affects .....
- (A) Skin (B) Kidney  
(C) Liver (D) Eye
30. NVBDCP, a national health programme works to prevent and control
- (A) Hepatitis (B) Dengue  
(C) Polio (D) All viral diseases
31. Which vitamin can be used to Stop excess bleeding ?
- (A) Vitamin E (B) Vitamin B complex  
(C) Vitamin K (D) Vitamin C
32. Which is incorrect for pharmacoeconomics ?
- (A) It is a branch of health economics  
(B) It is a national Programme to control Price of drugs  
(C) It is an area of research evaluating cost and outcome of drug therapy  
(D) Health insurances costs are part of Pharmacoeconomics
33. In which year 9th edition of Indian Pharmacopoeia was published ?
- (A) 2022 (B) 2023  
(C) 2018 (D) 2020
34. Which type of packaging material is most suitable for light sensitive medications ?
- (A) Transparent plastic (B) Amber coloured glass  
(C) Paper boxes (D) Cotton pouches
35. Which preservative is most suitable for eye drops and ophthalmic solutions ?
- (A) Ethanol (B) Citric acid  
(C) Saccharin sodium (D) Benzalkonium chloride

36. What is the primary purpose of preservatives in pharmaceutical formulations ?  
(A) Prolong shelf life (B) Improve taste  
(C) Increase viscosity (D) Enhance colour
37. Which type of plastic is commonly used for pharmaceutical blister packs ?  
(A) Polystyrene (PS) (B) Poly propylene (PP)  
(C) Polyvinyl chloride (PVC) (D) Polyethylene terephthalate ( PET)
38. Which type of tablet is designed to disintegrate in the small intestine rather than the Stomach ?  
(A) Chewable tablet (B) Enteric coated tablet  
(C) Effervescent tablet (D) Orally disintegrating tablet
39. Which type of capsule is designed to enclose liquid or semi solid medications ?  
(A) Soft gelatin capsule (B) Sugar coated capsule  
(C) Hard gelatin capsule (D) Enteric coated capsule
40. Which of the following additives is commonly used to improve the taste of syrups?  
(A) Glycerin (B) Menthol  
(C) Acetone (D) Sucrose
41. Which formulation is typically used for insertion into body cavities like the rectum or vagina ?  
(A) Lotion (B) Gel  
(C) Suppository (D) Cream
42. Which type of water is used in the preparation of injectable formulations ?  
(A) Water for injection (B) Distilled water  
(C) Purified water (D) Tap water
43. Which of the following is a live attenuated vaccine ?  
(A) Tetanus toxoid (B) Oral polio vaccine  
(C) Influenza vaccine (D) Rabies vaccine
44. What does CGMP stand for ?  
(A) Current General Manufacturing Procedures  
(B) Common Good Manufacturing Practices  
(C) Certified Good Manufacturing Protocol  
(D) Current Good Manufacturing Practice

45. Which novel drug delivery system uses lipid bilayer vesicles to encapsulate drugs ?  
 (A) Microspheres (B) Liposomes  
 (C) Nanoparticles (D) Implants
46. Which sterilization method is most suitable for ophthalmic eye ointments ?  
 (A) Dry heat sterilization (B) Membrane filtration  
 (C) Gamma radiation (D) Pasteurization
47. Which method involves the rapid removal of moisture by freezing the product and then removing the ice by sublimation?  
 (A) Freeze drying (B) Filtration  
 (C) Mixing (D) Extraction
48. Which of the following equipment is used for size reduction in pharmaceutical processes ?  
 (A) Membrane filter (B) Double cone blender  
 (C) Hammer mill (D) Freeze dryer
49. Which of the following is an example of a Hematinic agent ?  
 (A) Calcium Carbonate (B) Ferrous Sulphate  
 (C) Magnesium Hydroxide (D) Silver Nitrate
50. Volhard's method of titration is an example of  
 (A) Back Titration (B) Direct Titration  
 (C) Gravimetric Analysis (D) Acid Base Titration
51. Which of the following is classified as a loop diuretics  
 (A) Acetazolamide (B) Furosemide  
 (C) Chlorothiazide (D) Spironolactone
52. Atenolol is classified as  
 (A) Cholinergic agent (B) Cholinergic blocking agent  
 (C) Adrenergic agent (D) Adrenergic blocking agent
53. Which of these drug used in diabetes ?  
 (A) Xipamide (B) Captopril  
 (C) Atropine (D) Metformin
54. Which of the following drug is used as an Anticonvulsants ?  
 (A) Phenytoin (B) Propofol  
 (C) Haloperidol (D) Olanzapine



55. Which of the following drug is categorised as “True Analgesic”  
 (A) Paracetamol (B) Morphine  
 (C) Ibuprofen (D) Diclofenac
56. Which drug contains Thiazolidine ring in its structure ?  
 (A) Penicillin G (B) Amoxicillin  
 (C) Both (A) and (B) (D) None of (A) and (B)
57. Give the name of Antiviral Agent  
 (A) Ketoconazole (B) Ofloxacin  
 (C) Ramdesivir (D) Dapsone
58. Give the name of Broad spectrum antibiotic  
 (A) Doxycycline (B) Minocycline  
 (C) Chloramphenicol (D) All of above
59. Which cotton plug is used to trap Hydrogen Sulphide for the limit test of Arsenic ?  
 (A) Potassium chloride (B) Lead acetate  
 (C) Sodium acetate (D) Lead sulphide
60. Give the name of basic ring present in the given structure
- $$\begin{array}{c}
 \text{CH}_3 \\
 | \\
 \text{O}=\text{C}-\text{CH}-\text{CH}_2-\text{SH} \\
 | \\
 \text{N} \\
 \diagup \quad \diagdown \\
 \text{COOH}
 \end{array}$$
- (A) Pyridine (B) Pyrrole  
 (C) Pyrrolidine (D) Pyrimidine
61. The cylinder of carbon dioxide is painted with \_\_\_\_\_.  
 (A) Blue (B) Black  
 (C) Grey (D) White
62. Which anti cancer drug is classified as an alkylating agent ?  
 (A) Vinblastine (B) Cisplatin  
 (C) Actinomycin (D) Dromostanolone
63. What is the use of INH ?  
 (A) Anti tubercular Agent (B) Anti fungal Agent  
 (C) Anti malarial Agent (D) Anti Viral Agent

64. Which of the following belongs to the Tricyclic Antidepressants ?
- (A) Fluoxetine (B) Fluvoxamine  
(C) Imipramine (D) Diazepam
65. Who is considered the “Father of Medicine” and contributed to the early knowledge of herbal medicine ?
- (A) Hippocrates (B) Galen  
(C) Aristotle (D) Asclepius
66. The method of morphological classification categorizes crude drugs based on the
- (A) chemical test used for their identification.  
(B) part of the plant or animal from which they are obtained.  
(C) the diseases they are used to treat.  
(D) their solubility in different solvents.
67. Which type of adulteration involves mixing closely related but inferior drugs ?
- (A) Substitution (B) Toxic adulteration  
(C) Spoilage (D) Artificial adulteration
68. Which class of phytochemicals is detected by Keller-Killiani test ?
- (A) Alkaloids (B) Flavonoids  
(C) Cardiac glycosides (D) Tannins
69. Which of the following is the major therapeutic application of Ispaghula ?
- (A) Anti-diarrheal (B) Bulk laxative  
(C) Antipyretic (D) Anti-helminthic
70. Which of the Following Statements about Arjuna is True ?
- (A) It contains cardiac glycosides similar to digitalis.  
(B) It is rich in Flavonoids and tannins that strengthen heart muscles.  
(C) It is used as CNS Stimulant.  
(D) It works by inhibiting acetylcholine release.
71. Which Secondary metabolite is the major component of clove oil ?
- (A) Piperine (B) Cinnamaldehyde  
(C) Zingerone (D) Eugenol

72. Belladonna is commonly used as a :
- (A) Bronchodilator (B) Mydriatic agent  
(C) Analgesic (D) Sedative
73. A patient with Acute Lymphocytic Leukemia (ALL) is prescribed a drug derived from plant source. Which of the following is the most likely source of the drug ?
- (A) Cassia Angustifolia (B) Digitalis Purpurea  
(C) Catharanthus Roseus (D) Adhatoda Vasica
74. Identify the crude drug among following that contains the alkaloid “emetine”.
- (A) Ipecacuanha (B) Gymnema  
(C) Gokhru (D) Punarnava
75. Which alkaloid from cinchona is used to treat arrhythmia ?
- (A) Artemisinin (B) Quinine  
(C) Quinidine (D) Ergometrine
76. Which crude drug obtained from *Claviceps purpurea* is used in the treatment of postpartum haemorrhage ?
- (A) Quinine (B) Ephedrine  
(C) Ergometrine (D) Artemisinin
77. Which herb, known as Indian Ginseng, is used as an adaptogen ?
- (A) Guggul (B) Ashwagandha  
(C) Tulsi (D) Squill
78. Which of the following Suture is naturally degraded by enzymatic action ?
- (A) Cotton (B) Surgical catgut  
(C) Nylon (D) Silk
79. Which system of medicine is based on the principle of “Like cures like” ?
- (A) Ayurveda (B) Siddhu  
(C) Homeopathy (D) Unani
80. Which of the following compound is a major component of Sandalwood oil ?
- (A) Camphor (B) Eugenol  
(C)  $\alpha$ -Santalol (D) Linalool

## **SECTION - 2**

81. What is HTML primarily used for in website development?
- (A) Creating database
  - (B) Creating the structure and content of web pages
  - (C) Processing payments online
  - (D) Running server operations
82. In a pharmacy drug database, which of the following would typically be stored in the same table as basic drug information.
- (A) Drug name
  - (B) Patient name
  - (C) Pharmaceutical equivalent to drug
  - (D) Dosage regimen
83. What is the main purpose of CSS in web development ?
- (A) To create database tables
  - (B) To add Styling and appearance to web pages
  - (C) To identify patient and its prescription.
  - (D) To secure web server.
84. When creating a pharmacy drug database, which of the following would be an advantage of using MYSQL over MS-Access ?
- (A) MYSQL is easier to install on a single computer.
  - (B) MYSQL can handle more users accessing the database simultaneously.
  - (C) MY SQL has a simple interface.
  - (D) MYSQL works better without an internet connection.
85. Which of the following best describes the main purpose of a Pharmacy Information System ?
- (A) To analyze prescription pattern
  - (B) To manage medication inventory
  - (C) To monitor patient vital signals
  - (D) To simulate drug design and dosage regimen

86. What is the primary benefit of barcode medicine identification in hospital pharmacies ?
- (A) It reduces medication dispensing error.
  - (B) It speeds up the medication inventory process.
  - (C) It helps medication expiration dates.
  - (D) It enables automatic documentation of administered doses.
87. In the context of computerized applications in pharmacokinetics which of the following parameter can be calculated using mathematical models ?
- (A) Patient's allergic reactions
  - (B) Drug absorption, distribution, metabolism and excretion rates
  - (C) Medication color preferences
  - (D) Insurance coverage for medications
88. How do mobile technology applications primarily help with medication adherence monitoring ?
- (A) By automatically dispensing medications.
  - (B) By replacing medications with digital alternatives.
  - (C) By sending reminders and tracking medication usage.
  - (D) By measuring blood pressure.
89. The process of interpreting and understanding the data received by the receiver is called \_\_\_\_.
- (A) channel
  - (B) decoding
  - (C) encoding
  - (D) noise
90. Telephone / cell phone is a \_\_\_\_.
- (A) channel
  - (B) encoder
  - (C) decoder
  - (D) receiver
91. Ego, anxiety, fear etc. results in \_\_\_\_\_ barrier.
- (A) technical
  - (B) physical
  - (C) semantic
  - (D) psychological

92. What is the best way to communicate with someone who has a different cultural perspective?
- (A) Be respectful of their culture and values.  
 (B) Just go on talking about your own culture & values.  
 (C) Do not listen to him.  
 (D) Make assumptions about their beliefs and attitudes.
93. The pitch, volume and inflection or modulation in our voice is called \_\_\_\_\_.  
 (A) kinesics (B) frequency  
 (C) tone (D) proxemics
94. Which one is not an example of face to face communication ?  
 (A) one to one interaction (B) group discussion  
 (C) public speaking (D) newspaper report
95. Which of the following is not true for direct communication style ?  
 (A) straight forwardness (B) ambiguity  
 (C) open & honest intentions (D) clarity
96. Academic lectures and user manual are examples of \_\_\_\_\_ communication style.  
 (A) direct (B) spirited  
 (C) systematic (D) considerate
97. A serious listener concentrates on:  
 (A) verbal and non-verbal message of the speaker.  
 (B) the physical appearance of the speaker.  
 (C) body language of the speaker.  
 (D) the other audience.
98. What is the purpose of a subject line ?  
 a) to accurately summarize the content  
 b) to communicate the purpose (aim) of writing  
 c) to attract the reader  
 d) to find make it easy for the reader to find the email in the inbox.  
 (A) a, b & c (B) a, b & d  
 (C) a & b (D) a & d

- 99. Why it is important to be aware of the shades of meaning when using written communication ?**
- (A) Written communication can be easily misinterpreted.**
- (B) Written communication does not convey cues such as tone or facial expression.**
- (C) Written communication can reach to a large audience.**
- (D) All the above.**
- 100. What are the things to be considered when trying to understand your audience ?**
- a) their age & education**
- b) job title**
- c) their appearance**
- d) their responses**
- (A) all the above** **(B) a & b**
- (C) b & c** **(D) a, b & c**

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