

**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO**

T. B. C. : D – 01 – 2012

Test Booklet Series

Serial No.

1057

**A**

## TEST BOOKLET

PHARMACY

PAPER – I

Time Allowed : 2 Hours

Maximum Marks : 200

### : INSTRUCTIONS TO CANDIDATES :

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET OF THE SAME SERIES ISSUED TO YOU.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES **A, B, C** OR **D**, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING HB PENCIL.
3. You have to enter your **Roll No.** on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.
4. This Test Booklet contains **100** items (questions). Each item (question) comprises of four responses (answers). You will select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), mark (darken) the response (answer) which you consider the best. In any case, choose **ONLY ONE** response (answer) for each item (question).
5. You have to mark (darken) all your responses (answers) **ONLY** on the **separate Answer Sheet** provided, by using **HB pencil**. See instructions in the Answer Sheet.
6. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked (darkened) by you in the Answer Sheet. **There will be negative markings for wrong answers. 25 percent of marks allotted to a particular response (answer) will be deducted as negative marking for every wrong response (answer).**
7. Before you proceed to mark (darken) in the Answer Sheet the responses (answers) to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per the instructions sent to you with your **Admission Certificate**.
8. After you have completed filling in all your responses (answers) on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator the *Answer Sheet* and the *Test Booklet* issued to you.

**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO**

1. The Committee appointed by Government of India to look into the drug industry and various aspects of drugs like licensing, price control, imports, role of foreign sector, quality control was headed by :
  - (a) Mudaliar
  - (b) Bhatia
  - (c) Hathi
  - (d) Bhore
2. The Poison Act was introduced in the year :
  - (a) 1878
  - (b) 1894
  - (c) 1919
  - (d) 1930
3. One of the following is not correct in the main of objectives of Pharmacy Act, 1948 of India :
  - (a) Restoration of pharmacy profession in its due place in the health service
  - (b) Raising the status of pharmacy profession
  - (c) To regulate the practice of pharmacy
  - (d) To have common syllabus of pharmacy throughout India
4. Fine for false claim to be a registered pharmacist on first conviction is :
  - (a) Rs. 500
  - (b) 6 months imprisonment
  - (c) Rs. 1,000
  - (d) Both fine and imprisonment
5. The main objective of Drugs and Cosmetics Act, 1940 and subsequent amendments is to regulate the import, manufacture, distribution and sale of drugs and cosmetics of allopathy and the following categories except :
  - (a) Ayurveda
  - (b) Siddha
  - (c) Unani Tibb
  - (d) Homoeopathy
6. One of the following does not come under the purview of PCI :
  - (a) Education regulations
  - (b) Recognition of foreign qualification
  - (c) Approval of pharmacy institutions and withdrawal of approvals
  - (d) Issuing licenses to pharmacists
7. The sale of opium to the State Governments or manufacturing chemists is made by Central Government Opium Factory located at :
  - (a) Ghaziabad
  - (b) Ghazipur
  - (c) Ghorakhpur
  - (d) Goa

8. Pharmacy Council of India was constituted in which year ?
- (a) 1949  
(b) 1948  
(c) 1947  
(d) 1950
9. All products of parenteral use are listed under the following Schedule :
- (a) A  
(b) B  
(c) C  
(d) D
10. The total number of State Pharmacy Council members are :
- (a) 10  
(b) 15  
(c) 20  
(d) 25
11. The first edition of Indian Pharmacopoeia was out in :
- (a) 1945  
(b) 1950  
(c) 1955  
(d) 1960
12. Applications for grant or renewal of license for manufacturing Ayurvedic, Siddha and Unani drug is required to be made in :
- (a) Form 24-D  
(b) Form 48  
(c) Form 25-E  
(d) Form 24-E
13. Drugs to be taken under the medical supervision are included under the following Schedule :
- (a) E  
(b) G  
(c) H  
(d) K
14. The Drugs (Price Control) Order, 1995 does not take into account one of the following in fixing the retail price :
- (a) Material cost and conversion cost  
(b) Packing material and packing charges  
(c) Excise duty  
(d) Local taxes
15. New drugs developed through research are exempted from price control for a period of :
- (a) 5 years  
(b) 10 years

- (c) 15 years  
(d) 20 years
16. As per the Shops and Establishment Act young persons (12-18 years) should not be made to work more than one of the following hours per day :
- (a) 4 hours  
(b) 6 hours  
(c) 8 hours  
(d) 10 hours
17. Forms used to send a memorandum to Government Analyst under Schedule A is done in :
- (a) Form 14-A  
(b) Form 18 and 18-A  
(c) Form 15  
(d) Form 19
18. License for retail of drugs specified in Schedule X is given in the following form :
- (a) 20-A  
(b) 20-B  
(c) 20-F  
(d) 20-G
19. The effectiveness of the new drug is confirmed in one of the following phases of clinical trials :
- (a) Phase I  
(b) Phase II  
(c) Phase III  
(d) Phase IV
20. The list of diseases and ailments that a drug should not claim to cure are given in the following schedule of Pharmacy Act, 1940 :
- (a) H  
(b) J  
(c) K  
(d) M
21. The Drugs and Magic Remedies Act came into force in :
- (a) 1953  
(b) 1954  
(c) 1955  
(d) 1956
22. Ayurvedic preparations containing less than the following % of self generated alcohol are exempted from excise duty as per the Medicinal and Toilet Preparations (Excise Duties) Act, 1955 :
- (a) 1%  
(b) 2%  
(c) 3%  
(d) 4%

23. One of the following is not a member of the IAEC :
- (a) Biologist
  - (b) Veterinarian
  - (c) Social worker
  - (d) Advocate
24. One of the following is not an essential commodity as per the Act 1955 :
- (a) Raw Jute
  - (b) Cotton Textiles
  - (c) Petroleum Products
  - (d) Raw Wool
25. Under New Drug Policy, 1994, with National Drug Authority, the Central Government has the responsibility of granting license itself to the following except :
- (a) Large volume parenterals
  - (b) Sera and vaccines
  - (c) Whole human blood and blood products
  - (d) Small volume parenterals
26. As per the Code of Pharmaceutical Ethics a registered pharmacist can not do the following except :
- (a) Dispense drugs on humanitarian grounds
  - (b) Render first aid in emergencies
  - (c) Prescribe remedies in emergencies
  - (d) Can practice medicine in emergencies
27. As per the Shops and Establishment Act pharmacies differ from others in one of the following :
- (a) Hours of work for employees
  - (b) Cleanliness ventilation and lighting
  - (c) Wages for employees
  - (d) Opening and closing times
28. The first National Institute for Pharmacy Education and Research (NIPER) was started at :
- (a) Banaras
  - (b) Chennai
  - (c) Mohali
  - (d) Chandigarh
29. Regarding functions of the Pharmacy Councils in India one of the following is not correct :
- (a) A State Council takes care of the corresponding State
  - (b) A State Council can serve the need of another State
  - (c) There can be Joint Council to serve the need of both the States
  - (d) The Central Council can also serve the need of a State

30. As per the Medicinal and Toilet Preparations Act, "Bonded Laboratories" means :
- (a) Excise duty has not been paid  
(b) Excise duty has been paid  
(c) Excise duty need not be paid  
(d) None of the above
31. In one of the following alkaloids, the nitrogen atom is secondary amine :
- (a) Mescaline  
(b) Ephedrine  
(c) Atropine  
(d) d-tuboaurarine
32. Asiaticosides are present as active constituents in :
- (a) Nuxvomica  
(b) Opium  
(c) Tulsi  
(d) Brahmi
33. Opium is the dried latex obtained by vertical incisions of the following part of *papaver somniferum* :
- (a) Ripe capsules  
(b) Unripe capsules  
(c) Semiripe capsules  
(d) All of the above
34. The alkaloidal content in *atropa bella-donna* is highest in the following part :
- (a) Root
- (b) Leaf  
(c) Berries  
(d) Seeds
35. The following species *Rauwolfia* is indigenous to West Indies :
- (a) *R. Serpentina*  
(b) *R. Vomitoria*  
(c) *R. Nitida*  
(d) *R. Tetraphylla*
36. The following are involved as precursors for the biosynthesis of cinchona alkaloids except :
- (a) Indole  
(b) Anthanilic acid  
(c) Tryptophan  
(d) Geraniol
37. The active constituents in senna and aloes are Anthracene :
- (a) Alkaloids  
(b) Glycosides  
(c) Polymers  
(d) Esters
38. Spanish foxglove is :
- (a) *Digitalis purpurea*  
(b) *Digitalis lanata*  
(c) *Digitalis lutea*  
(d) *Digitalis thapsi*

39. The botanical name for Tulsi is :
- (a) Thevelia nerifolia
  - (b) Tinospora cordifolia
  - (c) Triticum aestivum
  - (d) Oscimum sanctum
40. The primary metabolites for alkaloid synthesis in plants are :
- (a) Carbohydrates
  - (b) Amino acids
  - (c) Proteins
  - (d) Peptides
41. A lubricating cream should possess the following properties except :
- (a) It should spread easily
  - (b) It should not have good skin absorption
  - (c) It should not be sticky in nature
  - (d) It should be smooth in nature with less oiliness
42. In limulus Amoebocyte Lysate Test the extract from the blood cell of which crustacea is used :
- (a) Octopus
  - (b) Horse Shoe Crab
  - (c) Lobsters
  - (d) Elephant Shoe Crab
43. The first edition of Pharmacopoeia of India was published in :
- (a) 1936
  - (b) 1946
  - (c) 1955
  - (d) 1966
44. Hydrolytic Resistance Test is performed on glass in order to find out :
- (a) Mechanical strength
  - (b) Quality
  - (c) Limit of alkalinity liberated by it
  - (d) Impermeability
45. The approximate capacity of the capsule number zero is :
- (a) 950 mg
  - (b) 450 mg
  - (c) 300 mg
  - (d) 100 mg
46. Schick Test is performed to test the degree of immunity of an individual against :
- (a) Syphilis
  - (b) Tetanus
  - (c) Tuberculosis
  - (d) Diphtheria

47. How much quantity of 60% alcohol required to make **one** liter of 45% of alcohol ?
- (a) 2 liter  
(b) 500 ml  
(c) 300 ml  
(d) 750 ml
48. Avoid cheese, chocolate and red meat in patient those who are under therapy :
- (a) Benzodiazepines  
(b) Phenothizines  
(c) MAO inhibitors  
(d) Prednisolone
49. Transdermal drug delivery system has the following advantages except :
- (a) Side effects are reduced  
(b) Patient compliance is improved  
(c) First pass metabolism is not avoided  
(d) Duration of action is increased
50. Drug which produce malignant hyperthermia is :
- (a) Diazepam  
(b) Halothane  
(c) Chloroquine  
(d) Phenytoin
51. Hoffman elimination is seen in :
- (a) d-Tubocuriosine  
(b) Atrocurium  
(c) Hexamethonium  
(d) Ether
52. Aspirin is lipid soluble when the medium has :
- (a) Low pH  
(b) High pH  
(c) Both of the above  
(d) None of the above
53. Which drug generally obey zero order kinetics ?
- (a) Alcohol  
(b) Ampicillin  
(c) Atenolol  
(d) Adrenalin
54. Which antihistamine is now withdrawn from market due to its cardiac toxicity ?
- (a) Terfenadine  
(b) Fexofenadine  
(c) Cetrizine  
(d) Loratidine
55. Which bird is generally taken for the bio-assay of digitalis ?
- (a) Parrot  
(b) Pigeon  
(c) Sparrow  
(d) Fowl



56. Which is not a brand name of amlodipine ?
- (a) NUMLO
  - (b) ATCOM
  - (c) AMTAS
  - (d) STAMLO
57. Which is a non-BZD newer hypnotics ?
- (a) Zileuton
  - (b) Zoledronate
  - (c) Zolpidem
  - (d) Zolmitriptan
58. For treatment of Morphine dependence, the drug used is :
- (a) Naloxone
  - (b) Disulfiram
  - (c) Methadone
  - (d) Midazolam
59. Which is a potent mineralocorticoid ?
- (a) Dexamethasone
  - (b) Fludrocortisone
  - (c) Prednisolone
  - (d) Hydrocortisone
60. For Pyrogen Test which animal is taken for experiment ?
- (a) Rat
  - (b) Cat
  - (c) Rabbit
  - (d) Hamster
61. Which is a inhaled corticosteroids ?
- (a) Hydrocortisone
  - (b) Budesonide
  - (c) Prednisolone
  - (d) Dexamethasone
62. Which is not a brand name of Ibuprofen ?
- (a) BRUFEN
  - (b) SUGAFEN
  - (c) TABALON
  - (d) TORVIN
63. The minimum area requirement for store-room of a 700 beds hospital is :
- (a) 1000 sq. feet
  - (b) 1600 sq. feet
  - (c) 2400 sq. feet
  - (d) 3600 sq. feet
64. For drugs which are given as enteric coated tablet, all the following are true, except :
- (a) Drugs which are destroyed in the acidic medium of the stomach
  - (b) Produce irritation in stomach
  - (c) Absorption takes place in intestine
  - (d) Early action of drug is required
65. Which vaccine is prepared from live bacteria ?
- (a) Cholera

- (b) Typhoid (b) 1.113  
(c) BCG (c) 1.313  
(d) Pertussis (d) 1.413
66. Which is a tri-cyclic antidepressant ?  
(a) Fluoxetine  
(b) Paroxetine  
(c) Amoxapine  
(d) Sertaline
67. Which is the most potent opioid analgesic ?  
(a) Pentazocin  
(b) MORPHINE  
(c) FENTANYL  
(d) Buprenorphine
68. Which one is the brand name of Nifedipine ?  
(a) Cardilox  
(b) Calcigard  
(c) Calaptin  
(d) Corvadil
69. Bioassay gives the idea about \_\_\_\_\_ of the test drug.  
(a) Unit quantity of the drug  
(b) Efficacy of the drug  
(c) Safety of the drug  
(d) Chemical structure of the drug
70. According to I. P. Syrup has density at 20°C is :  
(a) 1.213
71. Which is not true for evaluation of suspensions ?  
(a) Determination of rate of sedimentation  
(b) Determination of viscosity  
(c) Determination of Zeta potential  
(d) Determination of pH and stabilising agent
72. For a good ophthalmic solution the dispersed particle should be very fine in size :  
(a) Not greater than 5 micron  
(b) Not greater than 10 micron  
(c) Not greater than 15 micron  
(d) Not greater than 20 micron
73. Which one is a synthetic anionic emulsifying agent ?  
(a) Benzalkonium  
(b) Sodium lauryl sulfate  
(c) Cetyl trimethyl ammonium bromide  
(d) Tragacanth
74. For preparation of a primary emulsion by peppermint oil the Oil : Water : Gum should be :  
(a) 4 : 2 : 1

- (b) 3 : 2 : 1  
(c) 2 : 2 : 1  
(d) 1 : 2 : 1
75. If an object or a solution absorbs blue light then the transmitted colour will be :  
(a) Green  
(b) Yellow  
(c) Violet  
(d) Blue
76. All are essential components of colorimete except :  
(a) Photo cell  
(b) Galvanometer  
(c) A light source  
(d) Thermometer
77. Nephelometer is used to determine :  
(a) Concentration of Nephron in Kidney  
(b) Number of Nephron in Kidney  
(c) Concentration of a dispersed phase of a suspension  
(d) Concentration of radiation of the substance
78. Which is a angiotensin receptor blocker ?  
(a) Telmisartan  
(b) Terazocin  
(c) Ticlopidine  
(d) Timolol
79. Which phosphodiesterase inhibitor can be used in congestive heart failure ?  
(a) Midazolam  
(b) Mitrinone  
(c) Mivacurium  
(d) Miltefosin
80. Which is a atypical antipsychotic drug ?  
(a) Haloperidol  
(b) Olanzapine  
(c) Thioridazine  
(d) Penfluridol
81. Which is a anabolic steroid ?  
(a) Stanozolol  
(b) Salmeterol  
(c) Satranidazol  
(d) Sotalol
82. Epoxide intermediates are formed during metabolism of which drug ?  
(a) Alcohol  
(b) Paracetamol  
(c) Procaine  
(d) Clozapine
83. For bio-assay of Vit. B<sub>12</sub>, the micro-organism taken is :  
(a) Lactobacillus leichmannii  
(b) Lactobacillus acidophilus  
(c) Lactobacillus plantarum  
(d) Lactobacillus rhamnosus

84. All drugs excretion is enhanced in alkaline urine except :
- (a) Salicylate
  - (b) Pethidine
  - (c) Barbiturate
  - (d) Sulfadoxine
85. Reye's syndrome occurs in children if having viral infection, takes the drug :
- (a) Aspirin
  - (b) Paracetamol
  - (c) Ampicillin
  - (d) Ibuprofen
86. Which of the following drug is not given by intravenous route ?
- (a) Heparin
  - (b) Nitroglycerine
  - (c) Neomycin
  - (d) Linezolid
87. Which one of the following drug can be safely given to G-6-PD deficient patient ?
- (a) Vitamin K (water soluble derivatives)
  - (b) Primaquine
  - (c) Dapsone
  - (d) Propranolol
88. What is true regarding the highly ionized drug ?
- (a) Mainly excreted by the kidney
  - (b) Accumulates in the cellular lipids
  - (c) Highly protein bound
  - (d) Should be given by oral route only
89. Which of the following is an example of physiological antagonism ?
- (a) Protamine in case of heparin toxicity
  - (b) Terbutaline in leukotrienes mediated bronchoconstriction
  - (c) Reduction of anticoagulant effect of warfarin in presence of phenobarbitone
  - (d) Urinary alkalisers for poisoning due to salicylates
90. Microsomal enzymes induction can result :
- (a) Tolerance
  - (b) Dependence
  - (c) Super sensitivity to drug
  - (d) Drug toxicity
91. Therapeutic drug monitoring is indicated in :
- (a) Insulin therapy
  - (b) Anti hypertensive therapy
  - (c) Lithium
  - (d) Oral anticoagulant
92. In phase I clinical trial Mr. X was given new drug. The clearance and volume of

- distribution in Mr. X is 1.296 L/hr and 75 L respectively. The half life of drug will be :
- (a) 20 hr  
(b) 40 hr  
(c) 80 hr  
(d) 120 hr
93. Which of the following drug shows therapeutic window phenomenon ?
- (a) Diazepam  
(b) Insulin  
(c) Warfarin  
(d) Imipramine
94. A 8 days old new born is suffering from unconjugated hyperbilirubinaemia, the risk of kernicterus will be increased with the use of the following drug :
- (a) Sulphonamide  
(b) Phenobarbitone  
(c) Amoxycilline  
(d) Amikacin
95. Which of the following statement regarding loading dose is true ?
- (a) Aim is to quickly achieve therapeutic concentration  
(b) It is done to individualize the therapy  
(c) It is always single drug administration
- (d) It is governed by clearance and plasma half life
96. Regarding the controlled release of dosage form of drug, which of the following statement is not true ?
- (a) Bioavailability of some drug can be improved  
(b) It can improve patient's compliance  
(c) Drugs with short half lives are not suitable for making controlled release preparations  
(d) Dose dumping can lead to drug toxicity
97. Which of the following is not an example of targeted drug delivery system ?
- (a) Nano particles  
(b) Drug eluting stent  
(c) Pilocarpine ocusert  
(d) Transdermal system
98. Therapeutic index of drug is a indicator of :
- (a) Safety  
(b) Potency  
(c) Efficacy  
(d) Potency and Efficacy

99. What is not correct regarding the drug allergy ?

- (a) It is immunologically mediated reaction
- (b) It is because of use of large doses
- (c) It is also called hypersensitivity
- (d) It may occur even with use of small doses

100. What is the best description for Orphan Drug ?

- (a) Actions are mediated through orphan receptors
- (b) It has placebo like effects
- (c) Required to treat or prevent a rare diseases
- (d) It is always very cheap drug

.....

# PHARMACY

---

# INDIA