

*Inspector of Drug*

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

TR/IOD/15

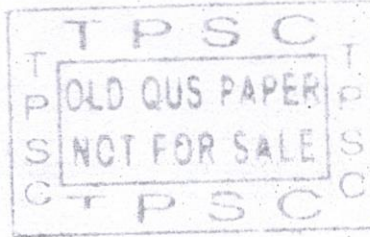
Test Booklet Series

**TEST BOOKLET  
GENERAL ABILITY TEST**

**A**

\_\_\_\_\_  
(Signature of the Candidate)

\_\_\_\_\_  
(Invigilator's Signature )



**Time Allowed—2 hours (Two hours)**

**Maximum Marks—100**

**INSTRUCTIONS**

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE SCREENING TEST, 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 SAME SERIES.
2. **ENCODE CLEARLY THE TEST BOOKLET SERIES IN THE APPROPRIATE PLACE IN THE ANSWER SHEET BY BLACK BALL POINT PEN ONLY.**
3. This Test Booklet contains 100 items (questions). Each question, carrying 1 (one) mark only, has four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the most appropriate. In any case, choose **ONLY ONE** response for each item.
4. You have to mark all your responses by **Black Ball Point Pen only** on the separate Answer Sheet provided. See directions in the Answer Sheet.
5. All items carry equal marks.
6. Before you proceed to mark in the Answer Sheet the responses to various items in the Text Booklet, you have to fill in some particulars in the Answer Sheet.
7. After you have completed filling in responses on the Answer Sheet and the Screening Test is completed, you should hand over the Answer Sheet to the Invigilator only. You are permitted to take the Test Booklet with you.
8. Sheets for rough work are appended on the Test Booklet at the end.
9. **Penalty for wrong/multiple answers :**
  - (i) For each question for which a wrong answer/multiple answer has been given by the candidate, a  $\frac{1}{2}$  (half) mark will be deducted as penalty.
  - (ii) If a question is left blank, i.e no answer is given by the candidate; there will be **no penalty** for that question.

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## PART- I

Four options are given against each of the following questions. Select the best / correct option from among the four options and encode in the answer sheet by using **black ball point pen** only as per example given below.

Example : The capital of India is

- (A) Delhi                      ● New Delhi  
(C) Indraprastha            (D) None of these

1. In the memory of which of the following doctors, the National Doctor's Day in India is celebrated on every 1st July ?  
(A) Dr. Asim Desai  
(B) Dr. Ramneek Mahajan  
(C) Dr. Bidhan Chandra Roy  
(D) Dr. Nil Ratan Sarkar
2. Name the state which shares longest border with Bangladesh.  
(A) Meghalaya  
(B) Tripura  
(C) West Bengal  
(D) None of these
3. Total population of Tripura according to Census, 2011 is —  
(A) 35,73,920  
(B) 36,73,917  
(C) 39,80,901  
(D) 33,73,920
4. How many districts are there in Tripura ?  
(A) 7  
(B) 8  
(C) 9  
(D) 4
5. Number of Zilla Parishads in Tripura is —  
(A) 10  
(B) 13  
(C) 8  
(D) 4
6. Agartala Municipal Corporation has started its functioning with effect from  
(A) 26th January, 2014  
(B) 15th August, 2014  
(C) 21st January, 2014  
(D) 28th February, 2014



7. Every year in our country, Pharmacist Day is celebrated on
- (A) 10th November  
(B) 3rd December  
(C) 25th September  
(D) 5th October
8. The number which when divided by 15, 30, 45, 60 will leave remainders 10, 25, 40, 55 respectively is
- (A) 170  
(B) 190  
(C) 175  
(D) None of these
9. A man sells an article at a profit of 20% for Rs. 840. If he wishes to make a profit of only 5%, what should be its selling price ?
- (A) 675  
(B) 735  
(C) 750  
(D) None of these
10. The value of expression  $3x^2 - 6x + 7$  for  $x = 2$  is
- (A)  $322 - 62 + 7$   
(B) 7  
(C) 0  
(D) None of these
11. Cube of  $\frac{1}{3}$  is
- (A)  $\frac{1}{9}$   
(B)  $\frac{1}{27}$   
(C)  $-\frac{1}{27}$   
(D) None of these
12. The perimeter of a square is 64 metre. The area of the square is
- (A) 512 sq.mt  
(B) 256 sq.mt  
(C) 128 sq.mt  
(D) None of these
13. If U. P. S. C stands for 21, 16, 19, 3 then C. S. I. R stands for ?
- (A) 3, 19, 9, 18  
(B) 3, 19, 16, 20  
(C) 3, 16, 21, 19  
(D) None of these



14. Which Bank prints and supplies the currency notes in India ?

- (A) State Bank of India
- (B) United Bank of India
- (C) Reserve Bank of India
- (D) United Commercial Bank of India

15. Who was known as the father of SMS ?

- (A) Mark Zuckeaberg
- (B) Matti Makkonen
- (C) Bill Gates
- (D) None of them

16. Which committee was constituted to examine drug approval procedure ?

- (A) P. N. Tandon Committee
- (B) V M Katoch Committee
- (C) Pandey Committee
- (D) Lodha Committee

17. Which state of India is considered as a cradle of modern Polo ?

- (A) Assam
- (B) Jharkhand
- (C) Manipur
- (D) Arunachal Pradesh

18. Which country became first to eliminate mother to baby HIV transmission ?

- (A) USA
- (B) Cuba
- (C) Japan
- (D) None of these

19. Who has been voted as best cricket test player of 21st century, in an online vote conducted by Cricket Australia ?

- (A) Ricky Ponting
- (B) Sachin Tendulkar
- (C) Adam Gilchrist
- (D) None of them

20. According to World Economic Forum, which organisation is the world's biggest employer ?

- (A) Indian Railway
- (B) Indian Army
- (C) US department of Defence
- (D) None of these

21. In January 2015, Indian Science Congress was held in

- (A) Chennai
- (B) Mumbai
- (C) Kolkata
- (D) Hyderabad



22. Which state in our country has declared one insect, Blue Mormon, as its state butterfly ?
- (A) Maharastra  
(B) Haryana  
(C) Uttar Pradesh  
(D) Madhya Pradesh
23. By the year 2020, India is planning a mission to explore Sun. The name of the mission is
- (A) Aditya  
(B) NISAR  
(C) Surya-IV  
(D) None of these
24. One of our former President is Dr. APJ Abdul Kalam Azad. In his name APJ stands for —
- (A) Arif Pakir Jainulabdeen  
(B) Avul Pakir Jainulabdeen  
(C) Amir Pakir Jainulabdeen  
(D) None of these
25. Who amongst the following is the author of the classical book "Gora" ?
- (A) Samaresh Basu  
(B) John Keats  
(C) Rabindra Nath Tagore  
(D) Sarat Chandra Chattopadhyay
26. Which country of South America is the biggest producer of Petroleum ?
- (A) Peru  
(B) Venezuela  
(C) Brazil  
(D) None of these
27. The famous tribal dance 'Hozagiri' pertains to the tribe
- (A) Chakmas  
(B) Jamatis  
(C) Reangs  
(D) Tripuris
28. Which of the following is the capital of Laksadweep ?
- (A) Kajipet  
(B) Port Blair  
(C) Kavaratti  
(D) None of these
29. The sign of Buddhist culture is seen in Tripura at
- (A) Unakoti  
(B) Pilak  
(C) Jampui hills  
(D) Kamalasagar



30. Seismometer is an instrument to measure

- (A) Intensity of electric field
- (B) Coefficient of viscosity
- (C) Intensity of earthquake
- (D) Intensity of sound

31. Meghalaya is having international border with

- (A) Myanmar
- (B) Bhutan
- (C) Nepal
- (D) None of these

32. Under which schedule of our Constitution, Tripura Tribal Areas Autonomous District Council is functioning ?

- (A) 6th
- (B) 8th
- (C) 9th
- (D) 10th

33. NF Railway will enforce mega block from 1st October, 2015 for conversion of metre-gauge railway track to broad-gauge in the section

- (A) Karimganj to Agartala
- (B) Badarpur to Agartala
- (C) Lumding to Agartala
- (D) Dharmanagar to Agartala

34. Which is the major crop of Tripura ?

- (A) Rice
- (B) Wheat
- (C) Pulses
- (D) None of these

35. Which highway connects Tripura to the rest of India ?

- (A) NH-1
- (B) NH-14
- (C) NH-44
- (D) None of these

36. The five central Asian countries, which Prime Minister Mr. Narendra Modi visited in July 2015, do not include

- (A) Turkmenistan
- (B) Ukraine
- (C) Uzbekistan
- (D) Kyrgystan

37. Which Bank provided a major share of Rs. 8,150 crores to improve power transmission system in 6 North Eastern States ?

- (A) HDFC
- (B) RBI
- (C) World Bank
- (D) None of these



38. Which country is hosting the 16th World Sanskrit Conference ?

- (A) Thailand
- (B) Sri Lanka
- (C) China
- (D) None of these

39. In which place India's first modernised Anganwadi Centre was launched ?

- (A) Paharganj, Delhi
- (B) Sonapat, Haryana
- (C) Nasik, Maharashtra
- (D) AD Nagar, Tripura

40. What is the IATA (International Transport Association) code Agartala airport ?

- (A) IXA
- (B) AGT
- (C) CCU
- (D) BOM



PART- II

41. The first edition of Pharmacopoeia of India (I.P) was published in —  
(A) 1966  
(B) 1955  
(C) 1948  
(D) None of these
42. The Drug Enquiry Committee (D.E.C) was constituted in the country during the year —  
(A) 1931  
(B) 1930  
(C) 1941  
(D) None of these
43. Antibodies which make the bacteria more susceptible to phagocytosis are called —  
(A) Agglutinins  
(B) Opsonins  
(C) Complement  
(D) None of these
44. The English meaning of the Latin term 'Collyrium' is  
(A) a capsule  
(B) an eye wash  
(C) a mouth wash  
(D) None of these
45. 100 proof spirit contain —  
(A) 95% v/v alcohol  
(B) 90.5% v/v alcohol  
(C) 57.1% v/v alcohol  
(D) None of these
46. Increase of potency and duration of action by concomitant use of two or more drugs is known as —  
(A) Addition  
(B) Antagonism  
(C) Synergism  
(D) None of these
47. The simple syrup I.P contain —  
(A) 66.7% w/v sucrose  
(B) 66.7% w/w sucrose  
(C) 56% w/w sucrose  
(D) None of these

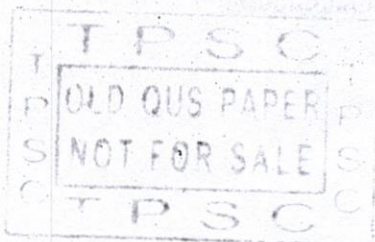


- (A) Plastic flow  
(B) Pseudoplastic flow  
(C) Dilatent flow  
(D) None of these
49. The size of particles in micro emulsion are  
(A) 0.5  $\mu\text{m}$   
(B) 0.05  $\mu\text{m}$  or smaller  
(C) 0.5  $\mu\text{m}$  or more  
(D) None of these
50. Cold creams are —  
(A) o/w emulsions  
(B) w/o emulsions  
(C) Solution  
(D) None of these
51. The H.L.B system for selection of emulgent had been introduced by —  
(A) Prof. Schroeff  
(B) Griffin  
(C) Prof. Chopra  
(D) None of them
52. Therapeutic Index of a drug is denoted by —  
(A)  $\frac{LD_{50}}{ED_{50}}$   
(B)  $\frac{ED_{50}}{LD_{50}}$   
(C)  $\frac{LD_{100}}{ED_{50}}$   
(D) None of these
53. LAL test is used for testing of Parenteral preparation to confirm —  
(A) the sterility  
(B) presence of Pyrogen  
(C) presence of particulate matter  
(D) None of these
54. Kaolin is a —  
(A) Diffusible drug  
(B) Indiffusible drug  
(C) Soluble drug  
(D) None of these
55. Which substance of the following is a primary standard ?  
(A) Sodium hydroxide  
(B) Sodium carbonate  
(C) Potassium chloride  
(D) None of these



56. Enteric coated tablet dissolve in the —

- (A) Mouth
- (B) Stomach
- (C) Intestine
- (D) None of these



57. Thallaquin test is used for identification of —

- (A) Ergot alkaloid
- (B) Cinchona alkaloid
- (C) Cardiac glycoside
- (D) None of these

58. Name the substance that acts as self indicator in oxidation reduction titration —

- (A) Potassium chromate
- (B) Potassium permanganate
- (C) Sodium chloride
- (D) None of these

59. Perchloric acid is used in —

- (A) Oxidation reduction titration
- (B) Aqueous titration
- (C) Non-aqueous titration
- (D) None of these

60. Keller-Kiliani test is used for identification of

- (A) Tannins
- (B) Resins
- (C) Cardiac glycosides
- (D) None of these

61. Mohr's method is used for estimation of

- (A) Acidic halides
- (B) Neutral halides
- (C) Anti-oxidants
- (D) None of these

62. Tetanus Toxoid should be stored at a temperature —

- (A) 10-20°C
- (B) 2-8°C
- (C) 20-25°C
- (D) None of these

63. Poliomyletis vaccine is a —

- (A) Killed bacterial vaccine
- (B) Killed viral vaccine
- (C) Living attenuated viral vaccine
- (D) None of these



64. Acid fast staining of Bacteria was first developed by —  
(A) Louis Pasteur  
(B) Paul Erlich  
(C) David Lewis  
(D) None of them
65. Gas sterilization of factory premises are done by using the gas —  
(A) Carbon monoxide  
(B) Ozone  
(C) Ethylene oxide  
(D) None of these
66. Who initiated Pharmacy Education in India ?  
(A) Prof. Mukherji  
(B) Prof. Basu  
(C) Prof. M. L. Schroef  
(D) None of them
67. As per D&C Act 1940 which substance of the following is a drug ?  
(A) Cold cream  
(B) Disposable syringe  
(C) Face powder  
(D) None of these
68. The composition of patent and proprietary medicine is included in the book —  
(A) I.P  
(B) B.P  
(C) U.S.P  
(D) None of these
69. Under rule 59 of the D&C Act and Rules, 1945 an officer appointed by the state government is known as —  
(A) Controlling authority  
(B) Licencing authority  
(C) Registrar  
(D) None of these
70. For testing of condoms, the function of C.D.L is entrusted to —  
(A) Central Research Institute, Kasauli  
(B) Central Indian Pharmacopoeial Laboratory, Ghaziabad  
(C) Indian Veterinary Research Institute, Izatnagar  
(D) None of these



71. If a drug formulation has been substituted wholly or in part by another drug or substance it comes under the purview as per D&C Act, 1940 —
- (A) Misbranded drug
  - (B) Spurious drug
  - (C) Adulterated drug
  - (D) None of these
72. Restricted licence are issued as per D&C Act, 1940 in form —
- (A) 20, 21
  - (B) 20A, 21A
  - (C) 20B, 21B
  - (D) None of these
73. Minimum area required for storage of drugs in retail drug shop as per the Act —
- (A) 100 sq. ft
  - (B) 10 sq. m
  - (C) 150 sq. ft
  - (D) None of these
74. Pharmacist Registration is issued by —
- (A) The Pharmacy Council of India
  - (B) The State Pharmacy Council
  - (C) C.D.L
  - (D) None of these
75. The Education Regulation for pharmacy is prescribed by —
- (A) The Pharmacy Council of India
  - (B) The State Pharmacy Council
  - (C) The Central Government
  - (D) None of these
76. The norms and standard for a manufacturing unit with G.M.P is prescribed in the following schedule of D&C Act.
- (A) Schedule - N
  - (B) Schedule - M
  - (C) Schedule - Q
  - (D) None of these
77. The ceiling price of a drug formulation is fixed by —
- (A) The State Government
  - (B) The Central Government
  - (C) The Pharmacy Council of India
  - (D) None of these
78. Disclosure of the name of manufacturer etc. as per D&C Act, 1940 is included in Section —
- (A) 22
  - (B) 18A
  - (C) 18B
  - (D) None of these



79. A drug can cross B.B.B. which is —

- (A) Water soluble
- (B) Lipid soluble
- (C) Highly ionisable
- (D) None of these

80. A drug metabolized by zero order of kinetics indicates

- (A) a constant amount of drug catebolised per hour
- (B) a constant fraction of drug catebolised per hour
- (C) the drug excreted through urine
- (D) None of these

81. A drug can binds with its receptor by —

- (A) co-valent bonding
- (B) hydrophobic bonding
- (C) both (A) and (B)
- (D) None of these

82. Antacids are considered most effective as —

- (A) Powder
- (B) Liquid
- (C) Tablet
- (D) None of these

83. The essential amino acid for thyroid hormone synthesis —

- (A) Thyroxin
- (B) Thyrotropine
- (C) Tyrosine
- (D) None of these

84. Parasympathetic stimulation causes —

- (A) bronchial gland secretion
- (B) pupillary dilation
- (C) relaxation of detrusor muscles
- (D) None of these

85. Neuromuscular junction is present between the

- (A) brain and spinal cord
- (B) skeletal muscle and its motor nerve
- (C) smooth muscle and its motor nerve
- (D) None of these

86. Disturbance in the balance between production and destruction of RBC leads to a condition called —

- (A) haematuria
- (B) anaemia
- (C) haematoma
- (D) erythema



87. Statin derivatives act by inhibiting —
- (A) Cox pathway
  - (B) Prostaglandin
  - (C) HMG Co-A reductase
  - (D) None of these
88. Anti-thrombotic agents —
- (A) Promote fibrinolysis
  - (B) Oppose platelet activation
  - (C) Oppose 'procoagulants'
  - (D) None of these
89. Contraception failure can occur when 'rifampin' is taken by women under OCP practice, because rifampin
- (A) acts as a chelating agent
  - (B) acts as an enzyme inducer
  - (C) destroy the male sperm
  - (D) None of these
90. Type of adrenergic receptor present in human heart is —
- (A) B<sub>1</sub>
  - (B) B<sub>2</sub>
  - (C)  $\alpha_2$
  - (D) None of these
91. First generation of anti-histaminics usually produce
- (A) Sedation
  - (B) Dryness of mouth
  - (C) Epigastric distress
  - (D) All of the above
92. Exercise has been found to be beneficial for prevention of onset of Type-2 diabetes mellitus —
- (A) decreased glucose transporter (GLUT-4) in muscle
  - (B) decreased free fatty acid (FFA) level
  - (C) increased free fatty acid (FFA) level
  - (D) None of these
93. When a drug has low therapeutic index, that drug should be —
- (A) used mostly orally
  - (B) given in low dose
  - (C) considered a potentially toxic substance
  - (D) None of these
94. The protein, opsin, present in the cone of eye is called —
- (A) photopsin
  - (B) rhodopsin
  - (C) metarhodopsin
  - (D) None of these



95. Percutaneous absorption of drug is greater in
- (A) adults
  - (B) children
  - (C) pregnant women
  - (D) None of these
96. Higher level of cholesterol in the body that indicates good health is —
- (A) LDL
  - (B) HDL
  - (C) VLDL
  - (D) None of these
97. Antigens, in ABO system of blood grouping and Rh system of blood grouping, remain present —
- (A) in the serum
  - (B) on the membrane of RBC and in the serum respectively
  - (C) on the membrane of RBC
  - (D) None of these
98. Anti-cancer drugs are generally toxic because —
- (A) they can cross the blood brain barrier
  - (B) they act mostly during cell division
  - (C) they have very low therapeutic index
  - (D) None of these
99. A narcotic drug under the Narcotic Drugs and Psychotropic Substance Act 1985—
- (A) Insulin Injection
  - (B) Pethidine Injection
  - (C) Erythropoeiatin Injection
  - (D) None of these
100. Prescription drugs are —
- (A) Schedule-H drugs
  - (B) Schedule-D drugs
  - (C) Schedule-K drugs
  - (D) None of these.