

Test Booklet
Series

A

Written Test for the Post of
LAB ATTENDANT

Test Booklet No.

Name of Applicant Answer Sheet No.

Applicant Roll No. : Signature of Applicant :

Date of Examination: Signature of the Invigilator(s)

1.

Time of Examination : 2.

Duration : 2 Hours]

[Maximum Marks : 95

IMPORTANT INSTRUCTIONS

- (i) The question paper is in the form of Test-Booklet containing **95 (Ninety Five)** questions. All questions are compulsory. Each question carries four answers marked (A), (B), (C) and (D), out of which only one is correct. Choose the correct option or the most appropriate option.
- (ii) On receipt of the Test-Booklet (Question Paper), the candidate should immediately check it and ensure that it contains all the pages, i.e., **95** questions. Discrepancy, if any, should be reported by the candidate to the invigilator immediately after receiving the Test-Booklet.
- (iii) A separate Answer-Sheet is provided with the Test-Booklet/Question Paper. On this sheet there are **95** rows containing four circles each. One row pertains to one question.
- (iv) The candidate should write his/her Application number at the places provided on the cover page of the Test-Booklet/Question Paper and on the Answer-Sheet and **NOWHERE ELSE**.
- (v) No second Test-Booklet/Question Paper and Answer-Sheet will be given to a candidate. The candidates are advised to be careful in handling it and writing the answer on the Answer-Sheet.
- (vi) For every correct answer of the question **One (1) mark will be awarded**. For every unattempted question, Zero (0) mark shall be awarded. **There is no Negative Marking**.
- (vii) Marking shall be done only on the basis of answers responded on the Answer-Sheet.
- (viii) To mark the answer on the Answer-Sheet, candidate should **darken** the appropriate circle in the row of each question with Blue or Black pen.
- (ix) For each question only **one** circle should be **darkened** as a mark of the answer adopted by the candidate. If more than one circle for the question are found darkened or with one black circle any other circle carries any mark, the question will be treated as cancelled.
- (x) The candidates should not remove any paper from the Test-Booklet/Question Paper. Attempting to remove any paper shall be liable to be punished for use of unfair means.
- (xi) Rough work may be done on the blank space provided in the Test-Booklet/Question Paper only.
- (xii) *Mobile phones (even in Switch-off mode) and such other communication/programmable devices are not allowed inside the examination hall.*
- (xiii) No candidate shall be permitted to leave the examination hall before the expiry of the time.

DO NOT OPEN THIS QUESTION BOOKLET UNTIL ASKED TO DO SO.

Lab Attendant

[P.T.O.

4 / 1

1. Which of the following amendments to the Indian Constitution lowered the voting age of citizens from 21 to 18 years?
 - (A) 41st
 - (B) 48th
 - (C) 53rd
 - (D) 61st

2. Which of the following is NOT a feature of the Indian Constitution?
 - (A) Fundamental Rights
 - (B) Bill of Rights
 - (C) Directive Principles of State Policy
 - (D) Preamble

3. Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl?
 - (A) Cousin
 - (B) Nephew
 - (C) Uncle
 - (D) Grandchild

4. Kiran is standing at the centre of a circular field. Her daughter is sitting to the East of her on the boundary of the field. Kiran goes towards her daughter and gives her some chocolates, then she turns to left and walks along the boundary of the field equal to $\frac{3}{4}$ of the length of the circular field where her son is waiting for chocolates. In which direction her son is sitting with respect to the location of her daughter?
 - (A) North-East
 - (B) North-West
 - (C) South-West
 - (D) West

5. If RESPECTIVE is written as EVTICESPER, which letter will be in the third place when counted from the left in case where the word DEMOCRATIC is written in same code?
 - (A) A
 - (B) C
 - (C) T
 - (D) R

6. Find ? in the series :
1, 2, 6, 7, 21, 22, 66, 67, ?
 - (A) 70
 - (B) 134
 - (C) 201
 - (D) 301

7. Find the missing numbers in the following series:

15, 34, 71, ?, 223

- (A) 132
- (B) 123
- (C) 89
- (D) 151

8. Find the wrong number in the series :

4, 32, 112, 256, 500

- (A) 32
- (B) 112
- (C) 256
- (D) 500

9. Find the number of triangles in the given figure :



- (A) 22
- (B) 24
- (C) 26
- (D) 28

10. If '+' means '-', '÷' means '+', '-' means '×' and '×' means '÷', then which of the following equation is correct?

- (A) $42 - 10 + 11 \times 5 = 96$
- (B) $165 + 12 - 2 \times 17 = 28$
- (C) $68 \div 4 - 11 + 18 = 110$
- (D) $44 \times 11 - 10 + 22 = 18$

11. Following are the relationship codes.

1. 'A × B' means 'A is the father of B'.
2. 'A ÷ B' means 'A is the son of B'.
3. 'A * B' means 'A is the sister of B'.
4. 'A = B' means 'A is the daughter of B'.
5. 'A - B' means 'A is the mother of B'.
6. 'A + B' means 'A is the brother of B'.

Using above codes choose the correct relationship in case of $P \times Q - R + S$,

- (A) P is the maternal uncle of R
- (B) P is the grandfather of S
- (C) Q is the nephew of P
- (D) P is the grandmother of S

12. Select which number completes the second pair in the same way as the first pair.

E/15 : G/21 :: P/48 : ?

- (A) K/33
- (B) Q/51
- (C) S/57
- (D) R/54

13. Study the following information carefully and answer the question given below:
1. 'cha cap ta pan' means 'he is playing golf'.
 2. 'ta jap chi cap' means 'playing tennis is good'.
 3. 'can cap pin go' means 'they are playing hockey'.
 4. 'ver zo jap rot pin dar' means 'tennis and carrom are indoor games'.
- Which of the following represents 'playing tennis' in that language?
- (A) ver chi
 - (B) pin ta
 - (C) jap cap
 - (D) ta jap
14. If 'A' is coded as 1, 'B' as 3, 'C' as 5 and so on, then which of the following is the numerical value of $R + A + N + G - E$?
- (A) 67
 - (B) 85
 - (C) 78
 - (D) 97
15. "Project Tiger", a highly publicised wildlife campaigns in the world, was launched in
- (A) 1973
 - (B) 1974
 - (C) 1983
 - (D) 1984
16. Iron is extracted from the following ore :
- (A) Ferrotite
 - (B) Bauxite
 - (C) Cryolite
 - (D) Hematite
17. What will be the value of b , if the lines given by $x + (b - 1)y + 3$ and $3x + 2by + 9$ are coincident?
- (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
18. Ritika has total 100 coins of Rs. 10 and Rs. 2 in her piggy bank. If the total amount of coins Rs. 400, Find the number of coins of each denomination?
- (A) 25, 75
 - (B) 20, 80
 - (C) 65, 35
 - (D) 70, 30
19. If the sum of the first 11 terms of an AP is 517 and its first term is 12, find the 15th term.
- (A) 100
 - (B) 110
 - (C) 188
 - (D) 206

20. From a point Q, the length of the tangent to a circle is 48 cm and the distance of Q from the centre is 50 cm. The radius of the circle is:
- (A) 14 cm
 (B) 21 cm
 (C) 24 cm
 (D) $(98)^{1/2}$ cm
21. If tangents PX and PY from a point P to a circle with centre O are inclined to each other at angle of 65° , then angle POA is equal to
- (A) 37.5°
 (B) 65.5°
 (C) 67.5°
 (D) 57.5°
22. The angle of elevation of the top of a 10 m high tower is 45° . If the height of the tower is doubled, then new angle of elevation of its top from the same point
- (A) will between 45° and 60°
 (B) will be less than 60°
 (C) will be more than 60°
 (D) will be 90°
23. A 25 ft long ladder is placed leaning towards a vertical wall such that it reaches the wall at a point 20 ft high. If the foot of the ladder is moved 8 ft towards the wall, then the distance by which the top of the ladder would slide upwards on the wall is
- (A) 2.5 ft
 (B) 3.2 ft
 (C) 3.6 ft
 (D) None of the above
24. **Statement 1** : A line segment that goes through the center of the circle, with both endpoints on the edge of the circle, is called Diameter.
Statement 2 : A line segment that goes from one point to another on the circle's circumference is called a chord. Conclusion: All chords are diameters.
- (A) Only Statement 1 and the Conclusion is correct.
 (B) Only Statement 2 and the Conclusion is correct.
 (C) Both statements and the Conclusion is correct.
 (D) Both statements are correct, but the conclusion is wrong.
25. Which of the following is not an example of mixture?
- (A) Salt solution
 (B) Steel
 (C) Air
 (D) Sugar

26. Golgi apparatus is
- Used to measure wavelength of sound
 - One type of a living cell organelles
 - Used to measure dryness fraction of steam
 - Used to measure velocity of light in space
27. Find the correct relationship from the following :
- $^{\circ}\text{C} = ^{\circ}\text{F} + 32$
 - $1.8\text{K} = ^{\circ}\text{F} - 273$
 - $^{\circ}\text{F} - 32 = ^{\circ}\text{C} * (9/5)$
 - $^{\circ}\text{C} + 32 = ^{\circ}\text{F} * (9/5)$
28. Rutherford's alpha-particle scattering experiment was responsible for the discovery of
- Atomic Nucleus
 - Electron
 - Proton
 - Neutron
29. Consider following two cases of motion.
- A body of 6 kg is accelerated by 3 m/s^2 for 10 seconds
 - A body of 2 kg is accelerated by 9 m/s^2 for 15 seconds
- The force required will be:
- More for case (i)
 - Less for case (i)
 - Same for Both (i) and (ii)
 - Cannot be decided based on given information.
30. What is the chemical formula of Baking soda?
- Na_2CO_3
 - NaHCO_3
 - NH_4Cl
 - NH_4OH
31. A person clapped his hands near a cliff and heard the echo after 4 s. What is the distance of the cliff from the person if the speed of the sound is taken as 330 m/s?
- 165 m
 - 330 m
 - 660 m
 - 1320 m
32. What happens when dilute hydrochloric acid is added to iron fillings?
- Hydrogen gas and iron chloride are produced.
 - Chlorine gas and iron hydroxide are produced.
 - No reaction takes place.
 - Iron salt and water are produced.
33. The electronic configuration of an ion Z^{-2} is 2, 8, 1. If 12 neutrons are present in parent atom, then the nucleon number of Z is
- 19
 - 20
 - 21
 - 22

34. Carbon is a non-metal that can exist in different forms. Each form is called
- (A) Allotrope
 - (B) Isotrope
 - (C) Isotope
 - (D) Anisotrope
35. Which of the following is not a basic oxide?
- (A) Na_2O
 - (B) CaO
 - (C) SiO_2
 - (D) BaO
36. A star which appears blue will be
- (A) As hot as sun
 - (B) Much hotter than Sun
 - (C) Cooler than Sun
 - (D) Very cold indeed
37. Select Correctly punctuated sentence.
- (A) After stealing Rahuls car, the thief lost his way and ended up at the policeman's garage.
 - (B) After stealing Rahul's car the thief lost his way and ended up at the policeman's garage.
 - (C) After stealing Rahul's car, the thief lost his way and ended up at the policeman's garage.
 - (D) After stealing Rahul's car, the thief lost his way and ended up, at the policeman's garage.
38. 'To put one's hand to plough' means
- (A) To take a difficult task
 - (B) To take up agricultural task
 - (C) To get engaged in unnecessary things
 - (D) To get interested in technical things
39. The spectators said, "Bravo! Well played Virat."
- (A) The spectators called Virat bravo because he played well.
 - (B) The spectators applauded Virat, saying that he played well.
 - (C) The spectators said that Virat played well and applauded him.
 - (D) The spectators encouraged Virat saying he played well.
40. The Markanda river originates in the hills of
- (A) Aravali
 - (B) Himalaya
 - (C) Shivalik
 - (D) Nilgiri
41. First grain ATM established in _____ district and is named as _____.
- (A) Bhiwani, AnnaPurna
 - (B) Kurukshetra, AnnaPurti
 - (C) Gurugram, Annapurti
 - (D) Faridabad, Anaajpurti

42. Which of the following ruler built the Gujri Mahal in Hissar district?
- (A) Muhammad Bin Tughlaq
(B) Qutubuddin Ebak
(C) Feroz Shah Tughlaq
(D) Qutubuddin Mubarak Shah
43. Western dedicated freight corridor (WDFC) passes through following districts of Haryana
- (A) Faridabad-Karnal
(B) Kundli -Palwal- Manesar
(C) Faridabad-Rewari-Narnaul
(D) Hisar-Jind-Yamuna Nagar
44. Which is the state animal of Haryana?
- (A) Black Francolin
(B) Black Buck
(C) Black Buffalo
(D) Tiger
45. Haryana covers following percentage of India's geographical area:
- (A) 0.46
(B) 1.34
(C) 1.76
(D) 2.56
46. Harshwardhan became the king of _____ in 606 AD:
- (A) Kaithal
(B) Kannauj
(C) Hansi
(D) Thanesar
47. Who was the leader of non-cooperation movement in Haryana?
- (A) Lala Lajpat Rai
(B) Maharaja Surajmal
(C) Sir Chhoturam
(D) Lala Murlidhar
48. Tomb of Razia Sultan is situated in following district :
- (A) Jhajjar
(B) Kaithal
(C) Ganganagar
(D) Mewat
49. A train running at 90 km/hr crosses a pole in 10 seconds. What is the length of train?
- (A) 250 m
(B) 150 m
(C) 900 m
(D) None of these

50. Which is in ascending order?

(A) $1/3, 2/5, 3/5, 6/7$

(B) $2/5, 1/3, 3/5, 6/7$

(C) $1/3, 2/5, 6/7, 3/5$

(D) $3/5, 6/7, 1/3, 2/5$

51. The average of four consecutive odd numbers is 24. Find the largest number.

(A) 25

(B) 27

(C) 29

(D) 31

52. Sum of a rational number and its reciprocal is $13/6$. Find the number

(A) 2

(B) $3/2$

(C) $4/2$

(D) $5/2$

53. Half of 1 percent written as decimal is

(A) 5

(B) 0.5

(C) 0.05

(D) 0.005

54. A person incurs a loss of 5% by selling a watch for Rs. 1140. At what price should the watch be sold to earn 5% profit.

(A) Rs. 1200

(B) Rs. 1230

(C) Rs. 1260

(D) Rs. 1290

Choose the most appropriate option to fill in the blank.

55. Look, a new missile

(A) is launched

(B) is launch

(C) is being launch

(D) is being launched

56. The paths of glory lead to the grave.

(A) straight

(B) but

(C) in

(D) directly

57. You haven't had your lunch yet, you?

(A) are

(B) aren't

(C) have

(D) haven't

58. He reminds us Paul Walker.
- (A) about
(B) of
(C) for
(D) with
59. Synonym of Intricate is
- (A) Non complex
(B) Simplistic
(C) Involved
(D) Plain
60. Convert the sentence from Direct Speech to Indirect Speech.
He said to her, Are you coming to the party?
- (A) He asked her whether she was coming to the party.
(B) He told her if she was coming to the party.
(C) He asked her if she will be coming to the party.
(D) He asked her if she would be coming to the party.
61. Which of the following pairs of words are differently related?
- (A) Kind : Cruel
(B) Slow : Sluggish
(C) Stale : Fresh
(D) Truth : Lie
62. Choose the antonym of the given word :
"Benign"
- (A) Evil
(B) Damaged
(C) Poor
(D) Sick
63. Choose the plural of the given word :
"Bacillus"
- (A) Bacilluses
(B) Bacissusis
(C) Bacilli
(D) Bacilliuses
64. The simple interest on a certain sum for 8 months at 4% per annum is Rs. 129 less than the simple interest on the same sum for 15 months at 5% per annum. The sum is:
- (A) Rs. 3500
(B) Rs. 3600
(C) Rs. 3700
(D) Rs. 3800
65. A spherical metal ball of radius 6 cm is melted and small metal balls of radius 3 mm are made. The total number of possible small metal balls is
- (A) 7000
(B) 8000
(C) 9000
(D) 10000

66. Which of the following pairs are correctly matched?
- Vitamin Deficiency Diseases
1. Vitamin A Xerophthalmia
 2. Vitamin B₂ Reddish Eyes
 3. Vitamin D Rickets
 4. Vitamin E Less Fertility
- (A) 1, 2 and 4 only
 (B) 2, 3 and 4 only
 (C) 2 and 3 only
 (D) All the above
67. It is easier to roll a stone up a sloping road than to lift it vertical upwards because
- (A) work done in rolling is more than in lifting
 (B) work done in lifting the stone is equal to rolling it
 (C) work done in both is same but the rate of doing work is less in rolling
 (D) work done in rolling a stone is less than in lifting it
68. What is the purpose of a Material Safety Data Sheet (MSDS)?
- (A) To provide information on the chemical composition of substances
 (B) To provide instructions on how to use laboratory equipment
 (C) To list the names of all laboratory personnel
 (D) To report accidents and incidents in the laboratory
69. Which of the following fire extinguishers is appropriate for use in a laboratory?
- (A) Class A
 (B) Class B
 (C) Class C
 (D) Class D
70. What should you do if you accidentally come into contact with a toxic chemical?
- (A) Ignore it and continue working
 (B) Wash the affected area with soap and water
 (C) Apply a neutralizing agent immediately
 (D) Seek medical help and follow proper decontamination procedures
71. Which of the following is true about handling biohazardous materials?
- (A) Use bare hands to handle biohazardous materials
 (B) Dispose of biohazardous waste in regular trash bins
 (C) Wear appropriate personal protective equipment (PPE)
 (D) Store biohazardous materials with regular laboratory supplies
72. What does SDS stand for in laboratory safety?
- (A) Safety Data Sheet
 (B) Standardized Documentation System
 (C) Scientific Data Storage
 (D) Substance Disposal System

73. What is the purpose of a spill kit in the laboratory?
- (A) To clean up chemical spills
 - (B) To store laboratory supplies
 - (C) To dispose of hazardous waste
 - (D) To measure liquid volumes accurately
74. How should corrections be made in a laboratory record?
- (A) Use whiteout to cover the mistake
 - (B) Erase the mistake completely
 - (C) Cross out the mistake, write the correction, and initial it
 - (D) Tear out the page and start over
75. How should you store electronic laboratory records?
- (A) On a personal cloud storage account
 - (B) On a shared network drive with restricted access
 - (C) On a USB drive that you carry with you
 - (D) In a public folder on your computer
76. Which of the following is an example of a laboratory record?
- (A) Employee attendance log
 - (B) Inventory spreadsheet
 - (C) Equipment maintenance schedule
 - (D) Experiment protocol template
77. What precautions should be taken when working with highly flammable solutions?
- (A) Ensure proper ventilation in the laboratory
 - (B) Use spark-proof equipment
 - (C) Keep flammable solutions away from open flames or ignition sources
 - (D) All of the above
78. Which of the following is an example of a highly flammable solution?
- (A) Water
 - (B) Acetone
 - (C) Sodium chloride
 - (D) Ethanol
79. What is the purpose of calibrating laboratory equipment?
- (A) To increase the lifespan of the equipment
 - (B) To ensure accurate measurements and reliable results
 - (C) To make the equipment more accurate
 - (D) To comply the accuracy norms
80. The smallest measurement that is possible by a Vernier Caliper is
- (A) Least Count
 - (B) Actual Reading
 - (C) Main Scale division
 - (D) Vernier Scale division

81. When diluting a strong acid, which of the following should be added?
- (A) Water to acid
 - (B) Acid to water
 - (C) Any of (A) and (B), as it doesn't matter
 - (D) Neutralizing agent to acid
82. Solder is an alloy of which of the following metals?
- (A) Lead and mercury
 - (B) Lead and antimony
 - (C) Lead and copper
 - (D) Lead and tin
83. Sodium Metal is kept under
- (A) Petrol
 - (B) Alcohol
 - (C) Water
 - (D) Kerosene
84. If there is an error of 2% in measuring the length of a simple pendulum, then percentage error in its period is
- (A) 1%
 - (B) 2%
 - (C) 3%
 - (D) 4%
85. Waste can be classified as hazardous based on how many characteristics?
- (A) One
 - (B) Two
 - (C) Three
 - (D) Four
86. Which type of microscope used to study of living cell?
- (A) Compound microscope
 - (B) Oil immersion microscope
 - (C) Phase-contrast microscope
 - (D) Electron microscope
87. The colour coding for the CO₂ gas cylinder is
- (A) Black with yellow band
 - (B) Black with white band
 - (C) Brown
 - (D) Grey with black band.
88. What is the pH range of acids?
- (A) 0 – 7
 - (B) 7 – 14
 - (C) 1 – 7
 - (D) 7 – 15

89. Which of the following rays are most penetrating?
- (A) Beta rays
 - (B) Alpha rays
 - (C) Gamma rays
 - (D) X-rays
90. Which fire extinguisher is suitable for live electrical fire?
- (A) CO₂
 - (B) Liquified chemical
 - (C) Water filled
 - (D) Halm.
91. Which one of the following is a hygienic way of disposing solid waste and is more suitable if the waste contains more hazardous material and organic content?
- (A) Composting
 - (B) Incineration
 - (C) Oxidation
 - (D) Subgrading
92. challenges all activities in a new laboratory process to provide a high degree of assurance that the process will work as intended in the live environment.
- (A) Document control
 - (B) Proficiency testing
 - (C) Process control
 - (D) Validation.
93. Which of the following terms representing the concentration of a Solution does not depend on temperature?
- (A) Molality
 - (B) Molarity
 - (C) Normality
 - (D) Strength.
94. Which of the following is the symbol of the metal that occurs in liquid form at ordinary temperature?
- (A) K
 - (B) Ag
 - (C) Pb
 - (D) Hg
95. A set of planned actions to provide confidence that processes other than testing that influence the quality of the laboratory's results and reports are working as expected, individually and collectively is:
- (A) Quality control (QC)
 - (B) Quality assurance (QA)
 - (C) Quality management system (QMS)
 - (D) Compliance

ROUGH WORK