

Roll No.:

Maximum Marks: 300

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Maximum Time: 90 (+30) minutes

CLASS

10

INSTRUCTIONS FOR CANDIDATE

1. The Question Paper comprises of two sections:
Section I: Multiple Intelligence Test (40 questions)
Section II: Scholastic Aptitude Test (100 questions)
Questions in Section I do not carry any marks whereas questions in Section II carry 3 marks each.
2. Duration for Section II of this test shall be 90 minutes. You will get additional 30 minutes to fill up information about yourself on the Answer Sheet and answer questions of Section I before start of the exam.
3. Answering all questions is compulsory in Section I but not in Section II. Section I of the test contains questions that you need to answer truthfully based on your preference. Do not provide fake responses otherwise you will not receive accurate analysis of your intelligence type.
4. Rank will be provided on the basis of Section II. Multiple Intelligence Report shall be provided on the basis of Section I.
5. For incorrect answers (in Section II), 1 mark would be deducted. For unanswered questions, no mark would be awarded or deducted.
6. Use of calculator, mobile phones or log tables is not permitted.
7. Fill the required details clearly on the Answer Sheet and do not overwrite.
8. There is only ONE correct answer. Choose only ONE option for an answer.
9. To mark your choice of answers by darkening the circles in the Answer Sheet, use an HB Pencil only.
10. Rough work should be done in the blank space provided on the last page in the booklet.
11. Return the Answer Sheet to the invigilator at the end of the exam.
12. Write your Roll No. on the Question Paper too.
13. Any use of unfair means in the test will result in termination of the candidature.

INDIAN INTELLIGENCE™ TEST



An Innovative Aptitude Test

SAMPLE PAPER**Confusion का
Smart Solution**

SECTION-II: SCHOLASTIC APTITUDE TEST

QUESTIONS 1 TO 30: MATHEMATICS

1. If $\log_x y = 100$ and $\log_2 x = 10$, then the value of y is:
 (A) 2^{1000}
 (B) 2^{100}
 (C) 2^{2000}
 (D) 2^{10000}
2. Find the unit digit of $(7^{95} - 3^{58})$
 (A) 6
 (B) 4
 (C) 3
 (D) None of these
3. A's income is 25% more than B's income B's income in terms of A's income is:
 (A) 75%
 (B) 80%
 (C) 90%
 (D) 96%
5. The pair of equations has
 (A) no solution
 (B) the solution
 (C) The solution $x = 2, y = 2$
 (D) the solution
6. The equation has:
 (A) one real solution
 (B) two real solution
 (C) No solution
 (D) None of these
7. If the equation has equal roots, the value of k must be
 (A) zero
 (B) either zero or
 (C)
 (D) either or
8. The area of triangle whose vertices are $(a, c+a)$, (a, c) and $(-a, c-a)$ are
 (A) a^2 (B) b^2
 (C) c^2 (D) a^2+c^2
9. The points $(0-1)$, $(-2,3)$, $(6, 7)$ and $(8,3)$ are
 (A) Collinear
 (B) vertices of a parallelogram which is not a rectangle
 (C) vertices of a rectangle, which is not a square
 (D) None of these
10. ABC is a right-angle triangle, right angled at A. A circle is inscribed in it. The lengths of the two sides containing the right angle are 6 cm and 8 cm, then radius of the circle is
 (A) 3 cm
 (B) 2 cm
 (C) 4 cm
 (D) 8 cm
11. In a ΔABC , $\angle C = 3\angle B = 2(\angle A + \angle B)$. Find the three angles.
 (A) $20^\circ, 40^\circ, 120^\circ$
 (B) $60^\circ, 20^\circ, 100^\circ$
 (C) $120^\circ, 20^\circ, 40^\circ$
 (D) $10^\circ, 40^\circ, 130^\circ$
12. Find the value of the trigonometric expression

$$\cot\left(\frac{\pi}{20}\right) \cot\left(\frac{3\pi}{20}\right) \cot\left(\frac{5\pi}{20}\right) \cot\left(\frac{7\pi}{20}\right) \cot\left(\frac{9\pi}{20}\right)$$
 (A) 0
 (B) $3\sqrt{3}$
 (C) $1/3\sqrt{3}$
 (D) 1
13. If $a \cot \theta + b \operatorname{cosec} \theta = p$ and $b \cot \theta + a \operatorname{cosec} \theta = q$, then $p^2 - q^2$ is equal to:
 (A) $a^2 - b^2$
 (B) $b^2 - a^2$
 (C) $a^2 + b^2$
 (D) $b - a$
14. The score of 10 students of a class test is given as 44, 54, 46, 63, 55, 42, 34, 48, 70, 38 calculate the median:
 (A) 48
 (B) 46
 (C) 47
 (D) 49
15. If the mean and median of a set of numbers are 8.9 and 9 respectively, then the mode will be
 (A) 7.2
 (B) 8.2
 (C) 9.2
 (D) 10.2

16. A bulb is taken out at random from a box of 600 electric bulbs that contains 12 defective bulbs. Then the probability of a non-defective bulb is

- (A) 0.02
- (B) 0.98
- (C) 0.50
- (D) None

17. The area of the four wall of a room is 660m² and length is twice the breath, the height being 11m. Find area of the ceiling.

- (A) 100 m²
- (B) 150 m²
- (C) 200 m²
- (D) 250 m²

18. The curved surface (area) of right circular cone of radius 11.3 cm is 355 cm². What is the slant height of the cone? ($\pi = 22/7$)

- (A) 8 cm
- (B) 10 cm
- (C) 12 cm
- (D) 14 cm

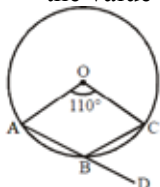
19. A man standing on the bank of the river observes that the angle subtended by a tree on the opposite bank is 60°. When he retires 36metres from the bank, he find the angle to be 30°. The breadth of the river is

- (A) $12\sqrt{3}$ m
- (B) 18m
- (C) 12m
- (D) 27m

20. A ladder is inclined to a wall making an angle of 30°with it. A man is ascending the ladder at the rate of 2metres/second. How fast is he approaching the wall?

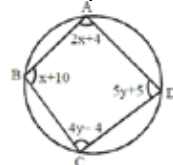
- (A) 2m/s
- (B) 1.5m/s
- (C) 1m/s
- (D) 2.5m/s

21. If O is the centre of the circle as shown in figure, the value of $\angle CBD$?



- (A) 45°
- (B) 50°
- (C) 55°
- (D) 60°

22. In the given figure, the values of x and y are respectively given by



- (A) 60°, 60°
- (B) 40°, 60°
- (C) 60°, 40°
- (D) 40°, 20°

23. The area of a circle is 154 sq. m. Find the length of the side of the inscribed square

- (A) 7 m
- (B) $8\sqrt{2}$ m
- (C) $7\sqrt{2}$ m
- (D) None of these

24. The straight lines $x + y - 4 = 0$, $3x + y - 4 = 0$ and $x + 3y - 4 = 0$ forma triangle which is

- (A) isosceles
- (B) right angled
- (C) equilateral
- (D) none of these

25. A parallelogram and a rectangle are on the same base and between the same parallel lines. Then the perimeter of the rectangle is _____.

- (A) equal to the perimeter of the parallelogram
- (B) greater than the perimeter of the parallelogram
- (C) less than the perimeter of the parallelogram
- (D) none of these

26. Seven equal cubes each of the side 5 cm are joined end to end. Find the surface area of the resulting cuboid.

- (A) 750 cm²
- (B) 1500 cm²
- (C) 2250 cm²
- (D) 700 cm²

27. The least value of $\cos \theta + \sin \theta$ is

- (A) $-\sqrt{2}$
- (B) 1
- (C) 0
- (D) Not defined

28. If in a data, 10 numbers are arranged in increasing order. If the 7th entry is increased by 4, then the median increases by

- (A) 5
- (B) 4
- (C) 6
- (D) 0

29. Two dice are rolled, find the probability that the sum is equal to 4

- (A) 1/2
- (B) 3/4
- (C) 1/12
- (D) 0

30. If the selling price of 12 articles is equal to the cost price of 15 articles, then the percentage gain or loss is

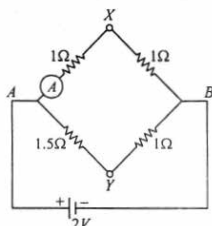
- (A) 25% gain
- (B) 25% loss
- (C) 30% gain
- (D) 30% loss

QUESTIONS 31 TO 60: SCIENCE

31. There are two wires of the same length and of the same material and radial r and $2r$. The ratio of their specific resistance is:

- (A) 1 : 2
- (B) 1 : 1
- (C) 1 : 4
- (D) 4 : 1

32. Reading of ammeter in ampere for the following circuit is .



- (A) 0.8
- (B) 1
- (C) 0.4
- (D) 2

33. Three identical bulbs are connected in parallel with a battery. The current drawn from the battery is 6 A. If one of the bulbs gets fused, what will be the total current drawn from the battery ?

- (A) 6A
- (B) 2A
- (C) 4A
- (D) None of these

34. A convex mirror of focal length f (in air) is immersed in a liquid ($\mu = 4/3$). The focal length of the mirror in liquid will be:

- (A) $f/3$
- (B) $f/2$
- (C) f
- (D) $3f$

35. Two thin lenses of focal lengths 20 cm and 25 cm are placed in contact. The effective power of the combination is

- (A) 9 diopters
- (B) 45 diopters
- (C) 6 diopters
- (D) 9 diopters

36. C.G.S. unit of magnetic field intensity is

- (A) Tesla
- (B) Gauss
- (C) Weber
- (D) None of these

37. According to Faraday's law, the total charge induced in a conductor that is moved in a magnetic field depends upon:

- (A) Initial magnetic flux
- (B) Final magnetic flux
- (C) Rate of change of magnetic flux
- (D) Change in magnetic flux

38. The frequency of AC produced in India is

- (A) 100 HERTZ
- (B) 75 HERTZ
- (C) 50 HERTZ
- (D) 40 HERTZ

39. Biogas is a mixture of:

- (A) $\text{CO} + \text{H}_2 + \text{CH}_4$
- (B) $\text{CO} + \text{H}_2$
- (C) $\text{CO}_2 + \text{CH}_4 + \text{H}_2 + \text{H}_2\text{S}$
- (D) $\text{CO}_2 + \text{N}_2$

40. When a beta particle is given out, the atomic number of the parent atom :

- (A) Increases by unity
- (B) Decreases by unity
- (C) Remains the same
- (D) Is halved

41. If pH of solution is 13, means that it is –

- (A) weakly acidic
- (B) weakly basic
- (C) strongly acidic
- (D) strongly basic

42. Food cans are coated with tin and not with zinc because -

- (A) Zinc is costlier than tin.
- (B) Zinc has higher melting point than tin.
- (C) Zinc is more reactive than tin.
- (D) Zinc is less reactive than tin.

43. Rutherford's scattering experiment is related to the size of -

- (A) nucleus
- (B) atom
- (C) electron
- (D) neutron

44. The electronic configuration of an element with atomic number 29 is -

- (A) $1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 3d^9, 4s^2$
- (B) $1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 3d^{10}, 4s^1$
- (C) $1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 3d^8, 4s^2, 4p^1$
- (D) $1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 3d^7, 4s^2, 4p^2$

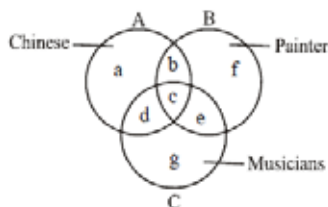
45. The element with atomic number 35 belongs to -

- (A) f - block
- (B) d - block
- (C) p - block
- (D) s - block

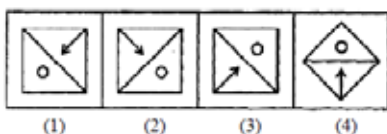
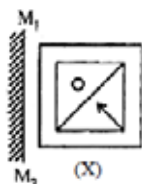
46. Which of the following is the increasing order of electron affinity of halogens ?
 (A) $\text{Cl} < \text{Br} < \text{I} < \text{F}$
 (B) $\text{I} < \text{Br} < \text{F} < \text{Cl}$
 (C) $\text{F} < \text{Cl} < \text{Br} < \text{I}$
 (D) $\text{Br} < \text{F} < \text{I} < \text{Cl}$
47. Which of the following is an example of oxidation reaction?
 (A)
 (B)
 (C)
 (D) None of these
48. $\text{Zn} + \text{H}_2\text{SO}_4 \text{ (dil)} \rightarrow \text{ZnSO}_4 + \text{H}_2$
 Above equation is a
 (A) Decomposition reaction
 (B) Single displacement reaction
 (C) Combination reaction
 (D) Synthesis reaction
49. IUPAC name of second member of homologous series of carboxylic acids is—
 (A) methanoic acid
 (B) ethanoic acid
 (C) propanoic acid
 (D) butanoic acid
50. Glacial acetic acid is —
 (A) 100% acetic acid free of water.
 (B) solidified acetic acid.
 (C) gaseous acetic acid.
 (D) frozen acetic acid.
51. Pepsinogen is secreted by
 (A) gastric glands
 (B) intestinal glands
 (C) chief cells
 (D) parietal cells
52. If a photosynthesizing plant releases oxygen containing more than the normal amount of ^{18}O , it is concluded that the plant has been supplied with
 (A) $\text{C}_6\text{H}_{12}\text{O}_6$ containing ^{18}O
 (B) H_2O containing ^{18}O
 (C) CO_2 containing ^{18}O
 (D) oxygen in the form of ozone
53. Lack of antidiuretic hormone (ADH) causes water loss from the body by
 (A) increased water loss through expiration
 (B) excessive urination
 (C) by combination of all the above factors
 (D) increased sweating
54. The smallest bone in mammals is
 (A) septomaxillary
 (B) dentary
 (C) femur
 (D) stapes
55. Urea is transported through
 (A) RBCs
 (B) WBCs
 (C*) Plasma
 (D) All of the above
56. The genetic information is stored in -
 (A) DNA
 (B) RNA
 (C) Ribosome
 (D) ER
57. Population explosion has occurred in the last
 (A) 500 years
 (B) 300 years
 (C) 100 years
 (D) 50 years
58. Which is related to males?
 (A) Oral pills
 (B) Tubectomy
 (C) Vasectomy
 (D) None of the above
59. During rainy seasons doors made of wood generally swell up due to
 (A) osmosis
 (B) imbibition
 (C) bad quality of wood
 (D) poor workmanship
60. Digestion of food in human starts from
 (A) duodenum
 (B) small intestine
 (C) mouth
 (D) large intestine

QUESTIONS 61 TO 80: LOGICAL REASONING

Direction (61- 62): In the figure given below, there are three intersecting circles each representing certain section of people. Different regions are marked a - g. Read the statements in each of the following questions and choose the letter of the region which correctly represents the statements.



61. Painters who are neither Chinese nor musicians
 (A) b (B) c
 (C) f (D) g
62. Chinese who are painters as well as musicians
 (A) a (B) b
 (C) c (D) d
63. Rohan ranks seventh from the top and twenty-sixth from the bottom in a class. How many students are there in the class?
 (A) 31 (B) 32
 (C) 33 (D) 34
64. How many 3s are there in the following sequence which are neither preceded by 6 nor immediately followed by 9?
 9 3 6 6 3 9 5 9 3 7 8 9 1 6 3 9 6 3 9
 (A) One
 (B) two
 (C) Three
 (D) Four
65. In each of the following questions, choose the correct mirror-image of the Fig. (X) From amongst the four alternatives 1, 2, 3 and 4 given along with it. The mirror represented by a line M1M2



- (A) 1 (B) 2
 (C) 3 (D) 4

Directions (66-68): Study the following information carefully and answer the questions below.

A team of five is to be selected from amongst five boys A, B, C, D and E and four girls P, Q, R and S.

Some criteria for selection are –

A and S have to be together

P cannot be put with R.

D and Q cannot go together.

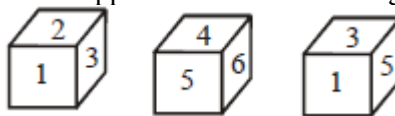
C and E have to be together.

R cannot be put with B.

Unless otherwise started, these criteria are applicable to all questions below

66. If two of the members have to be boys, the team will consist of
 (A) ABSPQ
 (B) ADSQR
 (C) BDSRQ
 (D) CESPQ
67. If two of the members are girls and D is one of the members, the members of the team other than D are
 (A) PQBC (B) PQCE
 (C) PSAB (D) PSCE
68. If including P at least three members are girls, the members of the team other than P are
 (A) QSAB
 (B) QSBD
 (C) QSCE
 (D) RSAD

69. Study the three dices given below. What number will be opposite to the side bearing number 2?



- (A) 4 (B) 3
 (C) 6 (D) 5

70. Find the term which does not fit into the series given below.

G4T, J10R, M20P, P43N, S90L

- (A) G4T (B) J10R
 (C) M20P (D) P43N

71. In each of the following questions, one term in the number series is wrong.

Find out the wrong term.

6, 15, 35, 77, 165, 221

- (A) 35 (B) 77
 (C) 165 (D) 221

72. In each of the following questions, one term in the number series is wrong.
Find out the wrong term.
2, 6, 24, 96, 285, 567
(A) 6 (B) 24
(C) 285 (D) 567

73. Find the missing term.
1, 3, 12, 27, ?
(A) 90
(B) 73
(C) 48
(D) 36

74. Find the missing term.
1, 3, 10, 21, 64, 129, 388, ?
(A) 776 (B) 777
(C) 1164 (D) 1165

75. The following questions consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words.
Circle : Diameter
(A) Rectangle : Diagonal
(B) Diameter : Radius
(C) Square : Rectangle
(D) Bisector : Angle

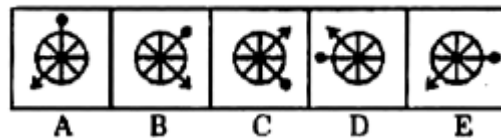
76. In each of the following questions, choose that set of numbers from the four alternative sets, that is similar to the given set.
Given set : (6, 36, 63)
(A) (7, 49, 98)
(B) (8, 64, 46)
(C) (9, 84, 45)
(D) (11, 111, 84)

77. In each of the following questions, five groups of letters are given. One of these groups is different from the other four. Find the odd one.
(A) ECBFD
(B) LQPOM
(C) WSVTU
(D) ROQNP

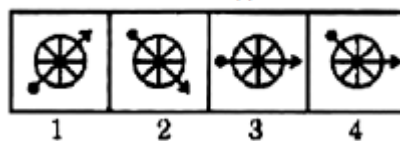
78. In each of the following questions, five groups of letters are given. One of these groups is different from the other four. Find the odd one.
(A) Kiwi (B) Penguin
(C) Emu (D) Eagle

79. Each of the following questions consists of five figures marked A, B, C, D and E called the Problem Figures. Select a figure from amongst the Answer Figure which will continue the same series as established by the five Problem Figures.

Problem Figures



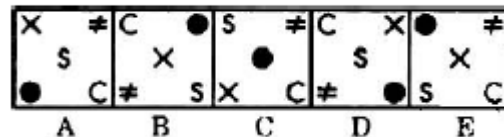
Answer Figure



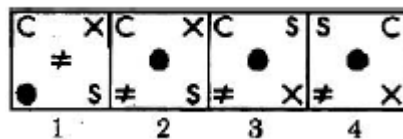
- (A) 1
(B) 2
(C) 3
(D) 4

80. Each of the following questions consists of five figures marked A, B, C, D and E called the Problem Figures. Select a figure from amongst the Answer Figure which will continue the same series as established by the five Problem Figures.

Problem Figures



Answer Figure



- (A) 1
(B) 2
(C) 3
(D) 4

QUESTIONS 81 TO 100: GENERAL KNOWLEDGE

81. Which country has signed a deal to install first nuclear power plant in Egypt?
(A) China
(B) Russia
(C) United States
(D) Iran

82. What is the range of the nuclear-capable Dhanush missile?
(A) 250 KM
(B) 350 KM
(C) 450 KM
(D) 500 KM

83. Which state has launched 'Tourist Mitra,' the tourist-friendly police force?
(A) West Bengal **(B)** Karnataka
(C) Gujarat **(D)** Andhra Pradesh
84. Which among the following countries has launched the Canadian communication satellite Telstar 12V?
(A) China **(B)** Japan
(C) Canada **(D)** Australia
85. 'Orange the world campaign,' is related to which among the following organisations?
(A) United Nations (UN)
(B) OECD
(C) NATO
(D) World Bank
86. Which among the following union ministries has launched the scheme titled – 'SAMBHAV'?
(A) Ministry of Social Justice & Empowerment
(B) Ministry of Power
(C) Ministry of Railways
(D) Ministry of Rural Development
87. The World Robot Conference 2015 was hosted by which country?
(A) Japan **(B)** South Korea
(C) Singapore **(D)** China
88. What amount of insurance is provided for Rupay classic card holders?
(A) Rs. 50,000/- **(B)** Rs. 75,000/-
(C) Rs. 1,00,000/- **(D)** Rs 2,00,000/-
89. On which date, the World Milk Day is observed?
(A) June 1
(B) July 4
(C) October 25
(D) November 26
90. The idea of 'Solar Alliance' has been mooted by which country?
(A) China
(B) India
(C) Australia
(D) USA
91. Which country is the manufacturer of the Rafale fighter aircrafts?
(A) USA
(B) Russia
(C) France
(D) China
92. The World Robot Olympiad 2016 will be held in which city?
(A) Bangalore **(B)** Beijing
(C) New Delhi **(D)** Tokyo
93. In which country, a new form gold that is as light as air was created by scientists?
(A) Japan **(B)** China
(C) Switzerland **(D)** France
94. Who has been declared the IAAF's male athlete of the year for 2015?
(A) Will Claye
(B) Christian Taylor
(C) Usain Bolt
(D) Ashton Eaton
95. Who among the following has been awarded the Freedom of the City of Cape Town?
(A) Denis Goldberg
(B) Ahmed Kathrada
(C) Prakash Utsav
(D) Govan Mbeki
96. In what context, 'Advance Pricing Agreements' are used?
(A) Intellectual Property Rights
(B) Taxation
(C) Nuclear co-operation
(D) Climate change
97. India co-developed the Barak-8 missile with which country?
(A) Brazil **(B)** Indonesia
(C) Israel **(D)** France
98. Which of the following countries is a member of the Nuclear Suppliers Group (NSG)?
(A) India **(B)** Pakistan
(C) Brazil **(D)** Iran
99. Who among the following has unveiled a stationary bicycle that can generate electricity in India?
(A) Bharat Desai
(B) C R Rao
(C) Manoj Bhargava
(D) Thomas Kailath
100. Who has won the 2015 Macau Open Grand Prix Gold Badminton tournament?
(A) Saina Nehwal
(B) P V Sindhu
(C) Jwala Gutta
(D) Ashwini Ponnappa

ROUGH WORK


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Roll No.:

Maximum Marks: 180

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Maximum Time: 90 (+30) minutes

CLASS

10

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SEASON 10

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**IDENTIFYING
THE RIGHT CAREER**

INSTRUCTIONS FOR CANDIDATE

General Instructions for Candidates

1. Read all instructions carefully. This Question Paper comprises of two sections:
Section I: Multiple Intelligence Test (40 questions) [20 minutes]
Section II: Scholastic Aptitude Test (60 questions) [90 minutes]
2. Write Your Roll Number on the box provided above and in OMR Sheet.
3. 10 Min will be provided to fill the OMR Sheet before the start of Exam.
4. Students must fill all the personal details carefully in the OMR Sheet
5. Read all the instruction on OMR sheet as well before start of exam.

Instructions for Section I

1. Students will be allocated maximum of 20 min to complete this section.
2. Questions in Section I do not carry any marks.
3. Answering all questions in Section I is compulsory.
4. You need to answer all the question in this section, truthfully based on your preference. fake responses will lead to misinterpretation of your intelligence type.
5. Multiple Intelligence Report shall be provided on the basis of Section I.

Instructions for Section II

1. Students will be allocated maximum of 90 min to complete this section.
2. Question in Section II carry 3 Marks Each.
3. Answering all questions is not compulsory in Section II.
4. For each correct answer student will be awarded 3 marks and for each incorrect answers, 1 mark would be deducted.
5. For unanswered questions, no mark would be awarded or deducted.
6. Rank will be provided on the basis of Section II.
7. Use of calculator, mobile phones or log tables is not permitted.
8. There is only ONE correct answer. Choose only ONE option for an answer.
9. Fill the required details clearly on Answer (OMR) Sheet & do not overwrite.
10. Rough work should be done in the blank space provided on the last page.
11. Return both Answer & Question sheet to the invigilator at the end of the exam.
12. Any use of unfair means in the test will result in termination of the candidate.

Instructions for filling OMR Sheet

1. Fill the OMR sheet using HB Pencil only.
2. To mark your choice of answers, Darken the circles completely in the Answer (OMR) Sheet corresponding to the question you are answering.
3. Darken only one circle, and keep rest of the sheet clean.
4. In case if wrong circle is darkened, completely erase the markings.
5. Ensure all personal details are filled in OMR Sheet before starting the exam.

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

MULTIPLE INTELLIGENCE TEST

SECTION-II

APTITUDE TEST

▶ MATHEMATICS

▶ SCIENCE

▶ LOGICAL REASONING

▶ GENERAL KNOWLEDGE

MULTIPLE INTELLIGENCE TEST

Directions : (1 to 35) These are general statements.

You have to mark options A, B, C or D in the OMR sheet as per your preference.

A = Mostly Disagree

B = Slightly Disagree

C = Slightly Agree

D = Mostly Agree

1. I can play a musical instrument.
2. I often have a song or piece of music in my head.
3. I find it easy to make up stories.
4. I have always been very coordinated.
5. Music is very important to me.
6. When I tell a lie it's very convincing.
7. I play a sport or dance.
8. I am a very social person and like being with other people.
9. I find graphs and charts easy to understand.
10. I find it easy to remember quotes or phrases.
11. I can always recognize places that I have been before, even when I was very young.
12. When I am concentrating I tend to draw pictures.
13. I find mental arithmetic easy.
14. At school one of my favourite subjects is / was English.
15. I like to think through a problem carefully, considering all the consequences.
16. I love physical sports and scary rides.
17. I enjoy individual sports best.
18. I find it easy to remember telephone numbers.
19. I set myself goals and plans for the future.
20. I can tell easily whether someone likes me or dislikes me.

21. To learn something new, I need to just get on and try it.
22. I often see clear images when I close my eyes.
23. I don't use my fingers when I count.
24. At school I loved / love music lessons.
25. I find ball games easy and enjoyable.
26. My favourite subject at school is / was Maths.
27. I always know how I am feeling.
28. I keep a diary.
29. My favourite subject at school was / is Art/ Drawing.
30. I find pleasure in reading.
31. It upsets me to see someone cry and not be able to help.
32. I prefer team sports.
33. Singing makes me feel happy.
34. I am happy spending time alone.
35. My friends always come to me for emotional support and advice.

Directions : (36 to 40) These are general statements.

You have to mark options A, B, C or D in the OMR sheet as per your preference.

A = Very Frequently

B = Occasionally

C = Rarely

D = Very Rarely

36. I use computer.
37. I use internet for studies.
38. I play games on computer.
39. I watch movies on computer.
40. I wish to use computers for overall knowledge enhancement.

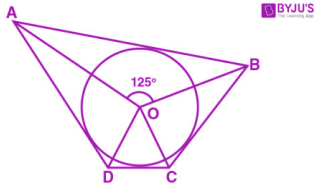
SECTION-II: SCHOLASTIC APTITUDE TEST

QUESTIONS 1 TO 20: MATHEMATICS

- The addition of a rational number and an irrational number is equal to:
(a) Rational number
(b) Irrational number
(c) Both
(d) None of the above
- Using Euclid's division algorithm, the HCF of 231 and 396 is
(a) 32
(b) 21
(c) 13
(d) 33
- The pairs of equations $9x + 3y + 12 = 0$ and $18x + 6y + 26 = 0$ have
(a) Unique solution
(b) Exactly two solutions
(c) Infinitely many solutions
(d) No solution
- Ritu can row downstream 20 km in 2 hours, and upstream 4 km in 2 hours. Her speed of rowing in still water and the speed of the current is:
(a) 6km/hr and 3km/hr
(b) 7km/hr and 4km/hr
(c) 6km/hr and 4km/hr
(d) 10km/hr and 6km/hr
- The sum of two numbers is 27 and product is 182. The numbers are:
(a) 12 and 13
(b) 13 and 14
(c) 12 and 15
(d) 13 and 24
- If $a = 10$ and $d = 10$, then first four terms will be:
(a) 10, 30, 50, 60
(b) 10, 20, 30, 40
(c) 10, 15, 20, 25
(d) 10, 18, 20, 30
- The missing terms in AP: __, 13, __, 3 are:
(a) 11 and 9
(b) 17 and 9
(c) 18 and 8
(d) 18 and 9
- The diagonals of a rhombus are 16 cm and 12 cm, in length. The side of the rhombus in length is:
(a) 20 cm
(b) 8 cm
(c) 10 cm
(d) 9 cm
- If triangle ABC is similar to triangle DEF, then,
(a) $AB/FD = BC/EF = CA/DE$
(b) $AB/DE = BC/DF = CA/EF$
(c) $AB/DE = BC/EF = CA/FD$
(d) $AB/BC = CA/DE = EF/FD$
- The points $(-1, -2)$, $(1, 0)$, $(-1, 2)$, $(-3, 0)$ form a quadrilateral of type:
(a) Square
(b) Rectangle
(c) Parallelogram
(d) Rhombus
- The value of $\sin 60^\circ \cos 30^\circ + \sin 30^\circ \cos 60^\circ$ is:
(a) 0
(b) 1
(c) 2
(d) 4
- The value of the expression $[\operatorname{cosec}(75^\circ + \theta) - \sec(15^\circ - \theta) - \tan(55^\circ + \theta) + \cot(35^\circ - \theta)]$ is
(a) -1
(b) 0
(c) 1
(d) $3/2$
- If the length of the shadow of a tree is decreasing then the angle of elevation is:
(a) Increasing
(b) Decreasing
(c) Remains the same
(d) None of the above
- From a point on the ground, which is 15 m away from the foot of the tower, the angle of elevation of the top of the tower is found to be 60° . The height of the tower (in m) standing straight is:
(a) $15\sqrt{3}$
(b) $10\sqrt{3}$
(c) $12\sqrt{3}$
(d) $20\sqrt{3}$

15. AB is a chord of the circle and AOC is its diameter such that $\angle ACB = 50^\circ$. If AT is the tangent to the circle at the point A, then $\angle BAT$ is equal to
- 65°
 - 60°
 - 50°
 - 40°

16. In the below figure, if $\angle AOB = 125^\circ$, then $\angle COD$ is equal to



- 62.5°
- 45°
- 35°
- 55°

17. The shape of an ice-cream cone is a combination of:
- Sphere + cylinder
 - Sphere + cone
 - Hemisphere + cylinder
 - Hemisphere + cone

18. The median of the data 13, 15, 16, 17, 19, 20 is:
- $30/2$
 - $31/2$
 - $33/2$
 - $35/2$

19. To construct a triangle similar to a given ΔPQR with its sides $5/8$ of the similar sides of ΔPQR , draw a ray QX such that $\angle QRX$ is an acute angle and X lies on the opposite side of P with respect to QR. Then locate points Q_1, Q_2, Q_3, \dots on QX at equal distances, and the next step is to join:
- Q_{10} to C
 - Q_3 to C
 - Q_8 to C
 - Q_4 to C

20. While computing mean of grouped data, we assume that the frequencies are
- centred at the class marks of the classes
 - evenly distributed over all the classes
 - centred at the upper limits of the classes
 - centred at the lower limits of the classes

QUESTIONS 21 TO 40: SCIENCE

21. In periodic table, Helium is placed at ____
- top left corner
 - bottom right corner
 - bottom left corner
 - top right corner
22. The modern periodic table is given by ____.
- Mendeleev
 - Newlands
 - Bohr
 - Mosley
23. Which of these reactions occur in photosynthesis?
- Carbon dioxide is reduced and water is oxidised (Carbon dioxide + water + energy from light produces glucose and oxygen)
 - water is reduced and carbon dioxide is oxidised
 - carbon dioxide and water are oxidised
 - carbon dioxide and water are reduced
24. Which organelle is called powerhouse of the cell?
- Mitochondria
 - golgi body
 - ribosomes
 - none
25. The by product of soap is
- Isoprene
 - Glycerol

- Butene
 - Ethylene glycol
26. Which of the given oxide(s) of iron would be obtained on prolonged reaction of iron with steam?
- FeO
 - Fe_2O_3
 - Fe_3O_4
 - Fe_2O_3 and Fe_3O_4
27. Aluminum is used for making cooking utensils. Which of the following properties of aluminum are responsible for the same?
- Good thermal conductivity
 - Good electrical conductivity
 - Ductility
 - High melting point
- (A) & (B)
 - (A) & (C)
 - (B) & (C)
 - (A) & (D)
28. Rusting of iron takes place in
- Ordinary water
 - Distilled water
 - Both ordinary & Distilled water
 - None of these

29. Which one of the given is incorrect?
 A. Acids turns blue litmus paper red
 B. Aqueous solutions of acids conduct electricity
 C. Acids react with certain metals to form hydrogen gas
 D. None of these
30. Which of the following acid(s) never forms acidic salt?
 (a) HCl
 (b) H_3PO_4
 (c) H_2SO_4
 (d) H_2CO_3
 A. (A) only
 B. (D) only
 C. (A) and (D) both
 D. (A) and (C) both
31. The chemical formula of Gypsum is
 A. $CaSO_4, 1/2H_2O$
 B. $CaSO_4, 2H_2O$
 C. $CaSO_4, H_2O$
 D. $CaSO_4, 3H_2O$
32. Which one of the given is the pH value of pure water?
 A. 0
 B. 7
 C. 8
 D. 1
33. The pH of commonly used toothpaste is
 A. <6.5
 B. ≥ 7.0
 C. ≥ 2.2
 D. None of these
34. Which is the correct sequence –
 (A) mouth \rightarrow stomach \rightarrow small intestine \rightarrow oesophagus \rightarrow large intestine
 (B) mouth \rightarrow oesophagus \rightarrow stomach \rightarrow large intestine \rightarrow small intestine
 (C) mouth \rightarrow stomach \rightarrow oesophagus \rightarrow small intestine \rightarrow large intestine
 (D) mouth \rightarrow oesophagus \rightarrow stomach \rightarrow small intestine \rightarrow large intestine
35. The correct path of urine is ____.
 (A) Kidney \rightarrow ureter \rightarrow urthra \rightarrow urinary bladder
 (B) Kidney \rightarrow urinary bladder \rightarrow urethra \rightarrow ureter
 (C) kidney \rightarrow ureter \rightarrow urinary bladder \rightarrow urethra
 (D) urinary bladder \rightarrow kidney \rightarrow ureter \rightarrow urethra
36. Write the correct sequence of air passage involved in inhalation?
 (A) larynx \rightarrow Nostrils \rightarrow Pharynx \rightarrow lungs
 (B) nostrils \rightarrow Pharynx \rightarrow larynx \rightarrow Trachea \rightarrow alveoli
 (C) nasal passage \rightarrow larynx \rightarrow Trachea \rightarrow Pharynx \rightarrow Alveoli
 (D) None
37. Consider equations: $Ca^{+2}(aq) + 2OH^{-}(aq) \rightarrow Ca(OH)_2 (s)$. Precipitate of calcium hydroxide will be of
 (A) Green color
 (B) Blue color
 (C) Brown color
 (D) White color
38. Which of the following is plant hormone?
 (A) insulin
 (B) thyroxine
 (C) oestrogen
 (D) cytokinin
39. When a person is suffering from cold, he cannot _____.
 A) Differentiate the taste of an apple from that of ice cream
 B) Differentiate the smell of a perfume from that of agarbatti
 C) Differentiate red light from green light
 D) Differentiate a hot object from a cold object
40. The number of sex chromosomes in zygote of humans is _____.
 (A) 1
 (B) 2
 (C) 3
 (D) 4

QUESTIONS 41 TO 50: LOGICAL REASONING

41. 235 346 457 ?
 (a) 468 (b) 558
 (c) 568 (d) 578
42. 'Newspaper' is related to 'Press' in the same way as 'Cloth' is related to -----
 (A) Tailor (B) Mill
 (C) Cotton (D) Market
43. A is father of C and D is son of B, E is brother of A. If C is sister of D then how is B related to A?
 (a) daughter (b) brother-in-law
 (c) husband (d) wife

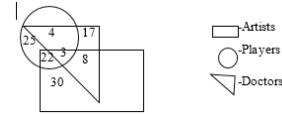
Directions: Read the following information carefully and answer the questions given below:

Six friends P, Q, R, S, T and U are standing in a row. Q is exactly in between U and S. T is standing in between P and R. P is not a neighbour of S and U. R is not a neighbour of S.

44. U is standing in between which of the following pair?
 (a) Q and R (b) Q and S
 (c) Q and P (d) Q and T
45. R is standing in between which of the following?
 (a) S and U (b) T and Q
 (c) T and U (d) P and T

Directions (46-50): Study the following figure and answer each of the questions given below:

46. How many doctors are both players and artists?
 (A) 22 (B) 8 (C) 3 (D) 30



47. How many artists are players?
 (A) 5 (B) 22 (C) 25 (D) 16
48. How many doctors are neither artists nor players?
 (A) 17 (B) 5 (C) 10 (D) 30
49. How many players are neither artists nor doctors?
 (A) 25 (B) 17 (C) 5 (D) 10
50. How many artists are neither players nor doctors?
 (A) 10 (B) 17 (C) 30 (D) 15

QUESTIONS 51 TO 60: GENERAL KNOWLEDGE

51. Who was elected as the Chairman of the Press Trust of India (PTI) Board in September 2023?
 (A) Aavek Sarkar
 (B) K.N. Shanth Kumar
 (C) Praveen Someshwar
 (D) Vijay Kumar Chopra
52. Who was the renowned British actor known for playing Professor Dumbledore in the Harry Potter films, and who recently passed away?
 (A) Daniel Radcliffe (B) Alan Rickman
 (C) Michael Gambon (D) Ralph Fiennes
53. Who is often referred to as the 'Father of India's Green Revolution' and recently passed away at the age of 98?
 (A) M.S. Swaminathan (B) C. Subramaniam
 (C) Norman Borlaug (D) Verghese Kurien
54. Which city is known as the "Tea City of India"?
 (A) Kolkata (B) Guwahati
 (C) Darjeeling (D) Dibrugarh
55. Which food delivery app introduced maternity insurance for women delivery partners?
 (A) Swiggy (B) DoorDash
 (C) Zomato (D) Foodpanda
56. Which Indian Institute of Technology has partnered with Airbus to promote aerospace education and innovation in India?
 (A) IIT Bombay
 (B) IIT Delhi
 (C) IIT Madras
 (D) IIT Kanpur
57. What is the paintbrush swift (Baoris farri)?
 (A) Bird (B) Flower
 (C) Butterfly (D) Snake
58. Who is the fastest player to reach 2000 runs in ODIs?
 (A) Shubman Gill
 (B) Hashim Amla
 (C) Suryakumar Yadav
 (D) Devon Conway
59. Who has been roped in by Puma as its brand ambassador
 (A) Rohit Sharma
 (B) Virat Kohli
 (C) Mohammed Shami
 (D) Jasprit Bumrah
60. Who authored the book 'The Reverse Swing: Colonialism to Cooperation'?
 (A) Rakesh Kumar
 (B) Neha Sharma
 (C) Akshay Verma
 (D) Ashok Tandon

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