

Roll No.:

Maximum Marks: 300

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Maximum Time: 90 (+30) minutes

CLASS

8

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

QUESTIONS 1 TO 30: MATHEMATICS

1. If then $x =$
(A) 1
(B) 14
(C) Cannot be determine
(D) None
2. The value of $(1001)^2 - (1000)^2$
(A) 1
(B) 101
(C) 2001
(D) None of these
3. If then $n =$
(A) 4
(B) 7
(C) 16
(D) 28
4. The cube of a number is 8 times the cube of another number. If the sum of the cubes of numbers is 243 the difference of the numbers is.
(A) 3
(B) 4
(C) 6
(D) None
5. In a fraction, if numerator is increased by 40% and denominator is increased by 80%, then what fraction of the original is the new fraction?
(A)
(B)
(C)
(D) Date inadequate
6. Three numbers are in ratio 2 : 3 : 4. The sum of their cubes is 33957 then greatest number is
(A) 14
(B) 21
(C) 28
(D) 35
7. If $x/y = 6/5$ then is
(A) $36/25$
(B) $25/36$
(C) $61/11$
(D) $11/61$
8. (A) $9/2$ (B) $2/9$
(C) $8/27$ (D) $27/8$
9. Simplify
(A)
(B)
(C)
(D) None of these
10. Simplify
(A)
(B)
(C)
(D)
11. If all the sides of a cuboid increase by 20% then by what percentage does its volume increase
(A) 20%
(B) 44%
(C) 60%
(D) 72.8
12. A and B together have Rs. 1210. If of A's amount is equal to of B's amount, how much amount does B have?
(A) Rs. 460
(B) Rs. 484
(C) Rs. 550
(D) Rs. 664
13. In selling an article for Rs. 76, there is a gain of 52%. the gain by selling that for Rs. 74 is :
(A) 50%
(B) 48%
(C) 46%
(D) 44%
14. The correct relationship is
(A) M.P. = S.P. - discount
(B) S.P. = M.P. - discount
(C) M.P. + S.P. = discount
(D) None of these
15. In case of compound interest the principal
(A) Increases every year
(B) Decreases every year
(C) Remains constant throughout the loan period
(D) Increases for first year and then decreases

16. A sum of money at compound interest yields Rs 200 and Rs 220 at the end of first and second year respectively. The rate % is
(A) 20 **(B)** 15
(C) 10 **(D)** 6
17. A positive value of x which satisfies the equation is :
(A) $x = 4$
(B) $x = 9$
(C) $x = 5$
(D) $x = 3$
18. One number is 3 times another number. If 15 is added to both the numbers, then one of the new numbers becomes twice that of the other new number. The numbers are:
(A) 15, 45
(B) 12, 36
(C) 13, 39
(D) 14, 42
19. If then
(A)
(B) 9
(C)
(D) None of these
20. The value of $(x + 2y + 2z)^2 + (x - 2y - 2z)^2$ is:
(A) $2x^2 + 8y^2 + 8z^2$
(B) $2x^2 + 8y^2 + 8z^2 + 8xyz$
(C) $2x^2 + 8y^2 + 8z^2 - 8yz$
(D) $2x^2 + 8y^2 + 8z^2 + 16yz$
21. The age of father is 3 times the age of the son. If sum of their ages is 48 years, then the age of father and son are (in years) :
(A) Father = 35, Son = 12
(B) Father = 45, Son = 15
(C) Father = 39, Son = 13
(D) Father = 42, Son = 14
22. The degree of the polynomial is
(A) 3
(B) 2
(C) 4
(D) does not exist
23. If we divide $x^5 + x^3 + 2x + 1$ by $x^3 + x + 1$, then degree of remainder will be
(A) 3
(B) greater than 3
(C) less than 3
(D) None
24. The angles of a Quadrilateral are in the ratio 1: 2: 3: 4, the angles are
(A) 36, 72, 108, 144
(B) 15, 130, 45, 150
(C) 45, 110, 55, 150
(D) None of these
25. The figure formed by joining the mid points of the adjacent sides of a square is a:
(A) rhombus
(B) square
(C) rectangle
(D) parallelogram
26. A field in the shape of a rhombus has the distances between pairs of opposite vertices as 14 m and 48 m. What is the cost of fencing the field at Rs.20 per metre:
(A) Rs. 1800
(B) Rs. 1900
(C) Rs. 2000
(D) None
27. Two cylinders of same volume have their heights in the ratio 1: 3, find the ratio of their radii.
(A) : 1
(B) : 1
(C) : 2
(D) : 2
28. A tetrahedron is also called
(A) triangular pyramid
(B) triangular prism
(C) square pyramid
(D) rectangular pyramid
29. At origin, the x-coordinate & y-coordinate respectively are -
(A) 1,1
(B) 0,0
(C) 1,0
(D) 0,1
30. A number from 1 to 11 is chosen at random. What is the probability of choosing an odd number?
(A)
(B)
(C)
(D) None of the above

QUESTIONS 31 TO 60: SCIENCE

31. How many dynes are equal to 1 N ?
(A) 10^6 (B) 10^4
(C) 10^5 (D) 10^3
32. Pressure is also measured in :
(A) joule
(B) mm of Hg
(C) mm of Ag
(D) metre
33. A vacuum cleaner works on the principle of:
(A) Electro Magnetic Induction
(B) Suction
(C) Mutual Induction
(D) Energy conservation
34. Atmospheric pressure is measured by:
(A) Barometer
(B) Manometer
(C) Screw gauge
(D) none of these
35. Ball bearing are used to :
(A) decrease friction
(B) decrease surface area
(C) increase friction
(D) increase surface area
36. The shining appearance of metals is called as :
(A) malleability
(B) lustre
(C) ductility
(D) conductivity
37. The part of the ear, that is filled with a liquid is the :
(A) cochlea (B) ear canal
(C) anril (D) hammer
38. Sound of frequencies below 20 Hz are called:
(A) Infrasonics
(B) Ultrasonics
(C) Supersonics
(D) None of the above
39. Silicon is a :
(A) Conductor
(B) Insulator
(C) Semi-conductor
(D) Super-conductor
40. The process by which a chemical change takes place in a substance when electric current is passed through it is called :
(A) electrolysis
(B) electroplating
(C) electrodes
(D) thermionic conduction
41. Electric bell works on the principle of :
(A) chemical effect of current
(B) magnetic effect of current
(C) heating effect of current
(D) all of the above
42. The correct relation between speed of light (C) and speed of sound (V_s) is:
(A) $C \leq V_s$
(B) $C > V_s$
(C) $C \gg V_s$
(D) $C = V_s$
43. The branch of science concerned with earthquakes and related phenomena is called:
(A) Electrostatics
(B) Optics
(C) Seismology
(D) Geology
44. Earthquakes are generally followed by :
(A) rain
(B) after shocks
(C) thunder
(D) lightning
45. When a part of the incident light is returned back into the same medium, it is called :
(A) Refraction
(B) Reflection
(C) Both (A) & (B)
(D) Absorption
46. Stars are mainly made up of:
(A) oxygen and hydrogen
(B) oxygen and nitrogen
(C) hydrogen and helium
(D) water and helium
47. Example of natural satellite is:
(A) Venus
(B) Comet
(C) Moon
(D) Sputnik- I

48. Lunar eclipse occurs when the:
 (A) Sun comes between the earth and the moon
 (B) Moon comes between the earth and the sun
 (C) Earth comes between the sun and the moon
 (D) Earth and the moon collide with each other
49. Which of the following fibres is also known as artificial silk ?
 (A) Nylon (B) Rayon
 (C) Polyester (D) Spandex
50. Which out of the following is used for making disposable cups?
 (A) LDPE (B) PS
 (C) PP (D) PVC
51. Which among the following is the poorest conductor of heat?
 (A) Silver (B) Gold
 (C) Copper (D) Lead
52. The metal which cannot be stored in packets is :
 (A) sodium (B) calcium
 (C) magnesium (D) zinc
53. Which non-metal is used in vulcanisation of rubber ?
 (A) Phosphorus
 (B) Sulphur
 (C) Hydrogen
 (D) Silicon
54. Calorific value of a fuel may be defined as -
 (A) The amount of heat produced when 1 kg of a fuel is completely burnt.
 (B) The amount of heat produced when 1 g of fuel is completely burnt.
 (C) The amount of heat produced when 10 g of a fuel is completely burnt.
 (D) The amount of heat produced in kilojoules when 1g of a fuel is completely burnt.
55. Nucleus is concerned with
 (A) respiration
 (B) secretion
 (C) control of cellular activities
 (D) protein synthesis
56. Energy currency of the cell is
 (A) ATP (B) GTP
 (C) CTP (D) All of the above
57. The term virus was coined by
 (A) Ivanowski
 (B) Beijerinck
 (C) Pasteur
 (D) Loeffler and frosch
58. Fungi used as food is
 (A) Mushroom (B) Agaricus
 (C) Morchella (D) All of the above
59. The process of applying fertilizers through drip irrigation is called as
 (A) strip farming
 (B) fertigation
 (C) fumigation
 (D) none of these
60. Honey bee culture is called as
 (A) pisciculture
 (B) apiculture
 (C) sericulture
 (D) horticulture

QUESTIONS 61 TO 80: LOGICAL REASONING

61. 67, 62, 57, ? , 47
 (A) 51
 (B) 62
 (C) 50
 (D) 53
62. 2, 5, 10, 17, ?
 (A) 24 (B) 25
 (C) 26 (D) 27
63. If POLITICS is coded as OPILITSC, then ARTICLES will be coded as:
 (A) RAITLCES (B) RAITLCSE
 (C) NNUHPM (D) NNVHPN
64. If PAINTER is written in a code language as NCGPRGP, then REASON would be written as :
 (A) PCYQMN (B) PGYQMN
 (C) PGYUMP (D) PGYUPM
- Directions : (65 to 66) Arrange the given words in alphabetical order and tick the one that comes first:**
65. (A) Grammar (B) Granary
 (C) Gradient (D) Grand
66. (A) Mahender
 (B) Mahendra
 (C) Maninder
 (D) Mahindra

67. Who among P, Q R, S and T is in the middle while standing in a line ?
 I. Q is to the right of T
 II. S is between P and T
 III. Q is between T and R
 (A) P
 (B) Q
 (C) R
 (D) T
68. Four girls are sitting on a bench to be photographed. Shikha is to the left of Reena. Manju is to the right of Reena. Rita is between Reena and Manju. Who would be the second from the left in the photograph ?
 (A) Reena
 (B) Shikha
 (C) Manju
 (D) Rita
69. Pointing towards a man in the photograph, Archana said, "He is the son of the only son of my grandmother". Now is man related to Archana ?
 (A) Cousin
 (B) Nephew
 (C) Brother
 (D) Son
70. Pointing towards a woman in the photograph, Rajesh said "the only daughter of her grandfather (Paternal) is my wife". How is Rajesh related to that woman
 (A) Uncle
 (B) Father
 (C) Maternal uncle
 (D) Brother
71. Mohan travels 7 km Eastwards, then he turns right and travels 3 km and further turns right again and travels 11 km. How far is he from the starting point ?
 (A) 5
 (B) 14
 (C) 21
 (D) 23
72. Amar travels one km due East , then 5 km due south, then 2 km due East and finally 9 km due North. How far is from the starting point ?
 (A) 16 kms.
 (B) 8 kms.
 (C) 6 kms.
 (D) 5 kms.

73. ef : jk :: no : ?
 (A) dc
 (B) gi
 (C) ml
 (D) tu

74. FG : LM :: ? : ?
 (A) NO : TU
 (B) HI : RS
 (C) GH : KL
 (D) DE : BA

Directions: (75 to 76) In each of the following questions, five words are given, out of which four are same in one way and the fifth one is different from others. Select the odd one.

75. (A) Sun
 (B) Moon
 (C) Venus
 (D) Mars
76. (A) Green
 (B) Violet
 (C) Brown
 (D) Yellow

Directions: (77 to 78) In the following questions, three out of the four alternatives are same in a certain way and so form a group. Find the odd one that does not belong to the group.

77. (A) Gold
 (B) Silver
 (C) Bronze
 (D) Iron
78. (A) Rickshaw
 (B) Taxi
 (C) Tonga
 (D) Cart
79. Find the day of the week on 26 January, 1950.
 (A) Tuesday
 (B) Friday
 (C) Wednesday
 (D) Thursday
80. Which two months in a year have the same calendar ?
 (A) June, October
 (B) April, November
 (C) April, July
 (D) October, December

QUESTIONS 81 TO 100: GENERAL KNOWLEDGE

81. Which day is celebrated as National Legal Services Day (NLSD) in India?
(A) 5 November
(B) 7 November
(C) 9 November
(D) 11 November
82. Which among the following countries will host the World Humanitarian Summit in 2016?
(A) France (B) Russia
(C) Germany (D) Turkey
83. First Rashtriya Sanskriti Mahotsav was held in which city?
(A) Kolkata
(B) New Delhi
(C) Chennai
(D) Ahmedabad
84. Which of the following holds the sobriquet "City of Letters"?
(A) Kottayam (B) Madurai
(C) Mysuru (D) Patna
85. Which day is celebrated as World Science Day for Peace and Development 2015?
(A) 6th November
(B) 8th November
(C) 10th November
(D) 12th November
86. Which among the following organisations published the report titled – 'World Energy Outlook 2015'?
(A) World Bank
(B) International Energy Agency (IEA)
(C) International Atomic Energy Agency (IAEA)
(D) International Renewable Energy Agency (IRENA)
87. What percent of FDI is allowed in Coffee plantation in India?
(A) 49% (B) 51%
(C) 70% (D) 100%
88. As per Census 2011, which state has lowest female literacy rate in India?
(A) Bihar
(B) Rajasthan
(C) Assam
(D) Madhya Pradesh
89. The Food and Agriculture Organization (FAO) of UN has declared the year 2016 as the ___?
(A) International Year of Soils
(B) International Year of Family Farming
(C) International Year of Quinoa
(D) International Year of Pulses
90. In which among the following sectors, 100% FDI is allowed under automatic route in India?
(A) Duty Free Shops
(B) Defence
(C) Banking
(D) Broadcasting
91. Which country hosted the International Summit on Migration between EU and African leaders ?
(A) Egypt (B) Greece
(C) Malta (D) Italy
92. What is the aim of recently launched initiative called 'Project ASMAN' in India?
(A) To reduce Infant Mortality rate
(B) To increase literacy rate
(C) To provide internet connectivity in rural areas
(D) To increase Indian Exports in Service sector
93. The first International Conference on Gender Equality (ICGE) was held in which among the following countries?
(A) India (B) France
(C) Australia (D) Sri Lanka
94. Who among the following Indians are listed in an inaugural 'Global Diversity List'?
(A) Anna Hazare and Medha Patkar
(B) Bindeshwar Pathak and Purnima Mehta
(C) Aruna Roy and Anna Hazare
(D) Bindeshwar Pathak and Aruna Roy
95. Who is the winner of the 2015 International Children's Peace Prize?
(A) Om Prakash Gurjar
(B) Abraham M Keita
(C) Malala Yousafzai
(D) Neha Gupta
96. Who is the first cricketer to complete 10000 runs in Ranji Trophy?
(A) Hrishikesh Kanitkar
(B) Mithun Manhas
(C) Wasim Jaffer
(D) Amol Muzumdar

97. Basaveshwara – whose statue was unveiled by Indian Prime Minister in London – was a famous poet in which language?

- (A) Tamil
- (B) Malayalam
- (C) Sanskrit
- (D) Kannada

98. 'Exercise Livewire,' was conducted by which among the following security forces in India?

- (A) Indian Army
- (B) Indian Navy
- (C) Indian Air Force
- (D) Border Security Force

99. Ashok Lahiri committee was formed to sort out which among the following issues?

- (A) Safety of Railway passengers
- (B) Cleaning of Ganga River
- (C) Intellectual property rights
- (D) Taxation problem being faced by the trade and industry

100. Comac C919 aircraft is developed by which among the following countries?

- (A) China
- (B) Japan
- (C) France
- (D) Australia

ROUGH WORK

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DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Roll No.:

Maximum Marks: 180

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Maximum Time: 90 (+30) minutes

CLASS

8

INDIAN INTELLIGENCE TEST™



An Innovative Aptitude Test

SEASON 10

Knowledge Partner



Amaravati | Amritapuri | Bengaluru | Chennai
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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

QUESTIONS 1 TO 20: MATHEMATICS

- What should be subtracted from $-\frac{2}{3}$ to get -1
(A) $\frac{1}{3}$
(B) $-\frac{1}{3}$
(C) $\frac{2}{3}$
(D) $-\frac{2}{3}$
- The difference between two whole numbers is 66. The ratio of the two numbers is 2: 5. The two numbers are:
(A) 60 and 6
(B) 100 and 33
(C) 110 and 44
(D) 99 and 33
- Which of the following is not a linear equation in one variable?
(A) $33z+5 = 0$
(B) $33(x+y) = 0$
(C) $33x+5 = 0$
(D) $33y+5 = 0$
- The angles of a quadrilateral are in ratio 1:2:3:4. Which angle has the largest measure?
(A) 120°
(B) 144°
(C) 98°
(D) 36°
- If a quadrilateral constructed has two distinct consecutive sides equal in length, then it is a:
(A) Rhombus
(B) Kite
(C) Parallelogram
(D) Rectangle
- If n is the number of sides, then the number of diagonals of a polygon is:
(A) $n/2$
(B) $n/3$
(C) $n(n-3)/2$
(D) $n(n-3)/3$
- The difference between the upper-class limit and lower class limit of a class interval is called:
(A) Frequency
(B) Width
(C) Grouped data
(D) Ungrouped data
- The Pythagorean triples whose smallest number is 8:
(A) 8, 16, 17
(B) 8, 17, 18
(C) 8, 15, 17
(D) 8, 15, 16
- If 50% of students are good at science out of 20 students. Then the number of students good at science is:
(A) 10
(B) 15
(C) 11
(D) 5
- The price of a motorcycle was Rs. 34,000 last year. It has increased by 20% this year. The price of motorcycle now is:
(A) Rs. 36,000
(B) Rs. 38,000
(C) Rs. 40,000
(D) Rs. 32,000
- The square of which of the following number will be an even number?
(A) 31
(B) 69
(C) 67
(D) 38
- The ratio 4 : 25 converted to percentage is:
(A) 8 %
(B) 4 %
(C) 16 %
(D) 25 %
- The area of a trapezium is 480 cm^2 , the distance between two parallel sides is 15 cm and one of the parallel side is 20 cm. The other parallel side is:
(A) 20 cm (B) 34 cm
(C) 44 cm (D) 50 cm
- The scale of a map is given as 1:300. Two cities are 4 km apart on the map. The actual distance between them is:
(A) 1000 km.
(B) 1100 km.
(C) 1200 km.
(D) 1300 km.

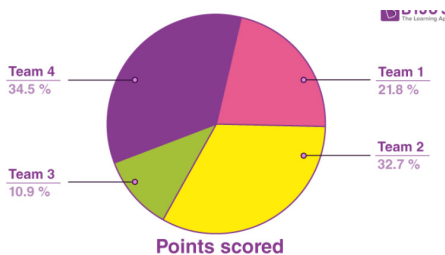
15. 6 pipes are required to fill a tank in 1 hour 20 minutes. If we use 5 such types of pipes, how much time it will take to fill the tank?

- (A) 120 minutes
- (B) 96 minutes
- (C) 80 minutes
- (D) 85 minutes

16. On factorising $14pq + 35pqr$, we get:

- (A) $pq(14+35r)$
- (B) $p(14q+35qr)$
- (C) $q(14p+35pr)$
- (D) $7pq(2+5r)$

Direction : Observe the diagram, given below and find the correct answer to the following MCQs.



17. Which team has the highest score?

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

18. Which team has the lowest score?

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

19. What is the average score of all the teams?

- (A) 22 %
- (B) 25 %
- (C) 27 %
- (D) 29 %

20. Which team has the second-highest score?

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

QUESTIONS 21 TO 40: SCIENCE

21. The process of loosening and turning of the soil is called _____?

- (A) Irrigation
- (B) Tilling
- (C) Harvesting
- (D) Erosion

22. The unwanted and uncultivated plants are called _____?

- (A) Crop
- (B) Weed
- (C) Grass
- (D) None of these

23. _____ is used as a fuel in heavy motor vehicles ?

- (A) Diesel
- (B) Petrol
- (C) CNG
- (D) Energy

24. A chemical process in which a substance reacts with oxygen to give off heat is called _____?

- (A) Rapid combustion
- (B) Combustion
- (C) Spontaneous combustion
- (D) none of these

25. If the force applied on the object is in the opposite to the direction of motion, the speed of the object _____?

- (A) Increase
- (B) decrease
- (C) remain same
- (D) Neutral

26. The number of oscillations per second is called _____ of oscillation ?

- (A) Frequency
- (B) Amplitude
- (C) Ductility
- (D) Conductivity

27. The stage of embryo in which all the body parts can be identified is called :

- (A) Baby
- (B) Foetus
- (C) Baby embryo
- (D) None of these

28. The chemical substance which are secreted from endocrine glands are called:

- (A) Puberty
- (B) Hormones
- (C) Estrogen
- (D) Adolescence

29. Adam's apple is prominent in:
(A) Boys of any age
(B) Adolescent girls
(C) Girls of any age
(D) Adolescent boys
30. Loudness of sound is determined by :
(A) Pitch
(B) Frequency
(C) Amplitude
(D) Time period
31. Above _____db the sound becomes physically painful :
(A) 60
(B) 40
(C) 120
(D) 80
32. It is a convention to call the charge acquired by a glass rod when it is rubbed with silk as _____ :
(A) Negative
(B) Positive
(C) Neutral
(D) Can be any one
33. When we stand in front of our dressing table,our left hand seems to be right and right seems to be left. This is called:
(A) Left right confusion
(B) Lateral inversion
(C) Up-side down phenonmenon
(D) Mirage
34. In our eye _____ cells can sense colour :
(A) Rod (B) Cone
(C) Both rod and cone (D) Neither rod and cone
35. Acid rain mainly contains :
(A) Sodium chloride
(B) Sulphur dioxide and Nitrogen dioxide
(C) Hydrochloric acid
(D) Carbon tetra chloride
36. Van mahotsav is:
(A) Planting trees in January
(B) Cutting trees in January
(C) Planting trees in July
(D) Planting trees in June
37. Cellulose is made up of large number of _____ units:
(A) Glucose
(B) Fructose
(C) Protein
(D) None of these
38. PET is form of:
(A) Steel
(B) Glass
(C) Polyester
(D) Nylon
39. Malaria is spread by:
(A) Female Plasmodium
(B) Female anopheles mosquito
(C) Male anopheles mosquito
(D) Male Plasmodium
40. Electroplating is based on:
(A) Heating effect of electricity
(B) Chemical effect of electricity
(C) Physical effect of electricity
(D) Magnetic effect of electricity

QUESTIONS 41 TO 50: LOGICAL REASONING

41. Which number will replace the question mark in the following?

3	15	4
7	38	5
3	?	5

- (A) 15
- (B) 19
- (C) 20
- (D) 18

42. There is a certain relationship between the numbers on the either side of $::$. Select a number from the options which will replace the ?.

$3 : 15 :: 7 : ?$

- (A) 35
- (B) 61
- (C) 36
- (D) 64

43. If '-' stands for 'division', '+' stands for 'multiplication', ' \div ' stands for 'subtraction' and ' \times ' stands for 'addition', which one of the following equations is CORRECT?

- (A) $6+20-12-7-1=38$
- (B) $6-3\div 12\times 7+1=57$
- (C) $6+20-12\div 7\times 1=62$
- (D) $6\div 20\times 12+7-1=70$

44. If ENGLAND is written as 1234526 and FRANCE is written as 785291, how is GREECE coded?

- (A) 381171
- (B) 381191
- (C) 832252
- (D) 835545

45. Ritu and Priti starts from a fixed point. Ritu moves 5 km westward and turns left and then covers 6 km. Priti moves 7 km northward, turns left and walks 5 km. The distance between Ritu and Priti now is _____.

- (A) 10 km.
- (B) 13 km.
- (C) 8 km.
- (D) 6 km.

46. If 'lead' is called 'stick', 'stick' is called 'nib', 'nib' is called 'needle' 'needle' is called 'rope' and 'rope' is called 'thread', what will be fitted in a pen to write with it?

- (A) stick
- (B) lead
- (C) needle
- (D) nib

47. Two positions of a block are given. When 1 is at the top, which number will be at the bottom?

- (A) 3
- (B) 6
- (C) 2
- (D) 1



48. Pointing to a photograph, a woman says, "This man's son's sister is my mother-in-law". How is the woman's husband related to the man in the photograph?

- (A) Grandson
- (B) Son
- (C) Son-in-Law
- (D) Nephew

49. Find the missing one: $ED : HG :: RQ : ?$

- (A) UM
- (B) VM
- (C) UQ
- (D) UP

50. A family consists of six members P, Q, R, X, Y and Z. P and R are married couple. Q is the son of R but R is not the mother of Q. Y is the brother of R. X is the daughter of P. Z is the brother of P. How many female members are there in the family?

- (A) One
- (B) Two
- (C) Three
- (D) Four

QUESTIONS 51 TO 60: GENERAL KNOWLEDGE

51. Name the first female amputee to climb Mount Everest?
- (A) Arunima Sinha
 - (B) Poorna Malavath
 - (C) Anshu Jamsenpa
 - (D) Premlata Agarwal
52. Who was India's first Chief of Defence Staff ?
- (A) General Bipin Rawat
 - (B) General Arjan Singh
 - (C) General Vijay Kumar Singh
 - (D) General Manoj Mukund Naravane
53. Google was founded in 1998 by Larry Page and _____?
- (A) Peter Thiel
 - (B) Steve Wozniak
 - (C) Sergey Brin
 - (D) Elon Musk
54. When is National Science Day observed in India every year?
- (A) 15th March
 - (B) 2nd January
 - (C) 5th May
 - (D) 28th February
55. What is the full form of MOU?
- (A) Monetary of Union Territory
 - (B) Memorandum of Understanding
 - (C) Memory of Undertaking
 - (D) Memory of Understanding
56. Which country is called the 'Coffee Bowl of the World'?
- (A) Serbia
 - (B) Mexico
 - (C) India
 - (D) Brazil
57. What is the total number of medals that India won at the Asian Para Games 2023 in Hangzhou, China?
- (A) 82
 - (B) 111
 - (C) 303
 - (D) 15
58. Which nations have been newly incorporated into the BRICS alliance??
- (A) Canada, Australia, Japan, Mexico, France
 - (B) Argentina, Iran, UAE, Saudi Arabia, Ethiopia
 - (C) United Kingdom, Germany, Italy, Spain, Switzerland
 - (D) South Korea, Turkey, Indonesia, Malaysia, Vietnam
59. Where was India's first 3D concrete Printed Post Office building inaugurated?
- (A) New Delhi
 - (B) Mumbai
 - (C) Bengaluru
 - (D) Chennai
60. Which national park is known as the natural habitat of Asiatic lions?
- (A) Jim Corbett National Park
 - (B) Kaziranga National Park
 - (C) Gir National Park
 - (D) Bandipur National Park

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