

**ASPIRE****IIT & MEDICAL**

AN INITIATIVE BY IITIANS



BRAIN OF HIMACHAL

ASPIRE TALENT HUNT EXAM

FOR

CLASS 9th - QUESTION PAPERTime: 120 MinutesMaximum Marks: 400

INSTRUCTIONS:

PLEASE FILL DETAILS CAREFULLY

NAME _____

FATHER NAME _____

SCHOOL NAME _____

CONTACT NUMBER _____

Read the instructions carefully. 5 minutes are allowed specifically for this purpose.

1. Answer all questions
2. This booklet is your question paper containing **100** questions
3. The question paper consist of **5 sections** I, II, III, IV, V.
4. Section-I **Physics** (Questions -1 to 14), Section-II **Chemistry** (15-26), Section-III **Biology** (27-40), Section-IV **Mathematics** (40-60), Section-V **Mental ability** (60-100).
5. Each question has **only one correct** answer. Once you have marked an option you can't mark a fresh option
6. For each **correct** answer **+4** marks will be awarded. For **wrong** answer **-1** mark will be deduced.
7. Fill your **OMR** sheet carefully.
8. All the Notations used in this paper are standard.
9. No use of electronic gadgets, calculators, mobile phones etc are allowed.
10. **In case of any discrepancy do not ask anyone one including your invigilator. Try to attempt question and mark the best possible answer.**

Roll No.										
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Section-I (PHYSICS)

1. If a body moving with an initial velocity of 3 m/s and an acceleration of 2 m/s². The what will be the distance travelled by the body in 4th second.
(a) 6 m (b) 7m (c) 10 m (d) 28m
2. A particle moves form A and B with a uniform velocity v_1 and from B to A with a velocity v_2 . If it moves along a straight line between A and B, then the average velocity of the particle is
(a) $\frac{v_1 v_2}{2}$ (b) $\frac{v_1 + v_2}{2}$ (c) $\frac{2v_1 v_2}{v_1 + v_2}$ (d) zero
3. Two bodies of mass 100 kg and 10000kg are separated by a distance 1 m. At what distance from the smaller body, the intensity of gravitational field will be zero?
(a) $\frac{1}{9}m$ (b) $\frac{1}{11}m$ (c) $\frac{10}{11}m$ (d) $\frac{1}{10}m$
4. A body cycles from A to B which are 10 km apart. Half the distance was covered at 6 km h⁻¹ and the remaining at 8km h⁻¹ and the remaining at 8 km h⁻¹. The average speed of the trip is
(a) $\frac{40}{21}ms^{-1}$ (b) $\frac{41}{20}ms^{-1}$ (c) $\frac{30}{21}ms^{-1}$ (d) $\frac{31}{20}ms^{-1}$
5. Area under an acceleration –time graph gives up _____.
(a) Average velocity (b) Instantaneous velocity
(c) Uniform velocity (d) Change in velocity
6. A ball s released from the top of a tower to height It takes T seconds to each the ground. What is the position of ball in T/3 seconds?
(a) h/9 metres from the ground (b) 7h/9 metres from the ground
(c) 8h/9 metres from the ground (d) 17h/18 metres from the ground

Rough work

7. If a body is taken from equator to pole, then how does the weight of the body change?
- (a) It will decrease (b) It will increase
(c) Remains unchanged (d) First increase and then decreases
8. The maximum value of static friction is known as
- (a) Dynamic friction (b) Rolling friction
(c) Limiting friction (d) Sliding friction
9. A bullet is fired vertically upwards. After 10s it returns to the point of firing. Which of the following statements are correct? Take $g = 10 \text{ ms}^{-2}$
- (a) The net displacement of the bullet in 10s is zero
(b) The total distance travelled by the bullet in 10s is 250 m
(c) The rate of change of velocity with time is constant throughout the motion of bullet
(d) The bullet is fired with an initial velocity of 50 m s^{-1} directly vertically upwards
10. If a body is thrown in air with an angle with horizontal. Then the path followed by the body will be
- (a) Linear (b) elliptical (c) parabolic (d) none
11. A body is moving with a velocity of 9 m s^{-1} and another body with a velocity -6 m s^{-1} is also moving on the same line as the first body. The relative velocity of second body w.r.t. the first is _____.
- (a) 10 m/s^{-1} (b) -6 m/s^{-1} (c) 15 m/s^{-1} (d) 6 m/s^{-2}
12. A block of mass 200 kg is kept on a rough horizontal surface. It just begins to move when a force of 1000 N is applied. Calculate the coefficient of limiting static friction.
- (a) 0.1 (b) 0.4 (c) 0.5 (d) Insufficient data

Rough work

13. A body weights 63 N on the surface of the earth. The gravitational force on it due to the earth at a height equal to half the radius of the earth is _____.
(a) 31.5 N (b) 94.5 N (c) 28N (d) 36N
14. If the radius of the earth is increased to thrice the change in density that should be accompanied, so that 'g' remains same at the surface is _____.
(a) $\frac{\rho}{2}$ (b) 2ρ (c) 3ρ (d) $\frac{\rho}{3}$

Rough work

Section-II (CHEMISTRY)

15. Two substances A and B when brought together form a substance C with the evolution of heat. The properties of C are entirely different from those of A and B. The substance C is:
(a) A compound (b) An element (c) A mixture (d) None of the above
16. Which of the following is considered to be a pure substance?
(a) Granite (b) Sodium chloride
(c) Muddy water (d) Milk of magnesia
17. Purity of a solid substance can be checked by its:
(a) Boiling point (b) Melting point
(c) Solubility in water (d) Solubility in alcohol
18. At higher altitudes:
(a) Boiling point of a liquid decreases (b) Boiling point of a liquid increases
(c) No change in boiling point (d) Melting point of solid increases
19. All gases will occupy zero volume when the temperature is reduced to:
(a) 273°C (b) 273°C (c) -273°C (d) 0°C
20. The formula of a chloride of a metal M is MCl_3 , the formula of the phosphate of metal M will be:
(a) MPO_4 (b) M_2PO_4 (c) M_3PO_4 (d) $\text{M}_2(\text{PO}_4)_3$
21. Which of the following has largest number of particles?
(a) 8g of CH_4 (b) 4.4g of CO_2 (c) 34.2g of $\text{C}_{12}\text{H}_{22}\text{O}_{11}$ (d) 2g of H_2
22. Which of the following contains the largest number of molecules?
(a) 0.2 mol H_2 (b) 8.0g H_2 (c) 17g of H_2O (b) 6.0 g of CO_2
23. Zig-zag movement of the solute particle in a solution is known as
(a) Linear motion (b) Circular motion (c) Brownian motion (d) Curved motion.

Rough work

24. CO₂ can be easily liquefied and even solidified because
- (a) it has weak forces of attraction
 - (b) It has comparatively more force of attraction than other gases
 - (c) It has more intermolecular space
 - (d) It is present in atmosphere.
25. Which of the following phenomena always results in the cooling effect?
- (a) Condensation (b) Evaporation (c) Sublimation (d) None of these
26. The colour of vapours formed on sublimation of iodine solid is
- (a) Purple (violet) (b) Colourless (c) Yellow (d) Orange

Section-III (BIOLOGY)

27. Cell theory states that cells are structural and fundamental units of_____
- (a) plants (b) animals (c) both plants and animals (d) only microorganisms
28. Identify the organelle which is commonly seen in both plant cell and animal cell.
- (a) Centriole (b) Tonoplast (c) Mitochondria (d) Both (a) and (b)
29. Master control of the cell' or 'cell brain' is_____
- (a) mitochondria (b) ribosomes (c) nucleus (d) plastids

Rough work

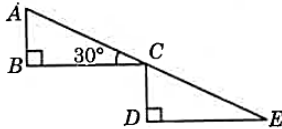
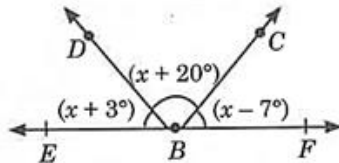
30. The cell organelle which helps in the synthesis of fats in adipose tissue is_____
- (a) smooth endoplasmic reticulum (b) rough endoplasmic reticulum
(c) mitochondria (d) adipocytes
31. The colourless proteinaceous matrix of chloroplast is
- (a) grana (b) cytoplasm (c) thylakoids (d) stroma
32. Identify the epithelial tissue found in respiratory tract.
- (a) Cuboidal (b) Ciliated columnar (c) Squamous (d) Glandular
33. Identify the tissue that fills space inside the organs and supports internal organs.
- (a) Adipose tissue (b) Muscular tissue (c) Areolar tissue (d) Blood
34. Identify the tissue which is strong and non-flexible.
- (a) Cartilage (b) Bone (c) Tendon (d) Muscle
35. Meristematic tissue is absent at the tips of
- (a) roots (b) stem (c) leaves (d) branches
36. Identify the vascular tissue mostly made up of dead Cells.
- (a) Chlorenchyma (b) Xylem (c) Parenchyma (d) Phloem parenchyma
37. Blue green algae come under which group of organisms?
- (a) Archebacteria (b) Algae (c) Eubacteria (d) Protista
38. Identify the group of organisms associated with pro- karyotic cells.
- (a) Monera (b) Protista (c) Fungi (d) Algae
39. Name the part of the plant cell which traps solar energy .
- (a) Grana (b) Stroma (c) Cuticle (d) Chlorophyll
40. The cluster of filaments of fungi is known as
- (a) Hypha (b) Mycelium (c) Chitin (d) Mesosome

Rough work

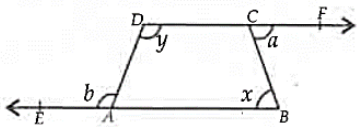
Section-IV (MATHEMATICS)

41. $\sqrt[4]{3\sqrt{2^2}}$ equals
(a) $2^{-1/6}$ (b) 2^{-6} (c) $2^{1/6}$ (d) 2^6
42. For any positive real number x , find the value of $\left(\frac{x^a}{x^b}\right)^{a+b} \times \left(\frac{x^b}{x^c}\right)^{b+c} \times \left(\frac{x^c}{x^a}\right)^{c+a}$.
(a) 0 (b) -1 (c) 1 (d) 2
43. Simplify : $\sqrt[3]{27} - 7\sqrt[3]{216} + 10\sqrt[6]{64} + \sqrt[4]{121}$
(a) -8 (b) 8 (c) 4 (d) -4
44. $3x - 2 = 0$ is a line
(a) parallel to y -axis and passes through $\left(\frac{2}{3}, 0\right)$
(b) parallel to y -axis and passes through $\left(0, \frac{2}{3}\right)$
(c) parallel to x -axis and passes through $\left(0, \frac{2}{3}\right)$
(d) parallel to x -axis and passes through $\left(\frac{2}{3}, 0\right)$
45. Every six months, price of petrol increases at the rate of ₹ 6 per litre. Taking price of petrol in December 2017 as ₹ x and price of petrol in December 2018 as ₹ y , form a linear equation showing the relation between x and y .
(a) $y = x - 12$ (b) $x = y - 12$ (c) $x = y + 12$ (d) $y = x + 12$
46. The linear equation that converts Fahrenheit to Celsius is $F = \left(\frac{9}{5}\right)C + 32$. If the temperature of a liquid is 40°C , then what is its temperature in Fahrenheit (in $^\circ\text{F}$)?
(a) 75 (b) 100 (c) 110 (d) 104
47. The point $P(a, b)$ lies in the IV quadrant. Which of the following is true?
(a) $b \geq a$ (b) $a < b$ (c) $a > b$ (d) $a \geq b$

Rough work

48. Plot the point $P(-6, 3)$ on a graph paper. Draw $PL \perp x$ -axis and $PM \perp y$ -axis. The coordinates of L and M respectively are
 (a) $L(0, -6), M(3, 0)$ (b) $L(-6, 0), M(0, 3)$
 (c) $L(0, -6), M(0, 3)$ (d) $L(-6, 0), M(3, 0)$
49. Two students are equidistant from a box. Considering the box as origin, the position of student A is $(0, 7)$. If the ordinate of the position of student B is zero, then what can be the position of student B ?
 (a) $(7, 0)$ (b) $(-7, 0)$ (c) $(7, -7)$ (d) Both (a) and (b)
50. In figure, $BC \parallel DE$. If $\angle ABC = \angle CDE = 90^\circ$ and $\angle ACB = 30^\circ$, then the measure of $\angle DCE$ is
 (a) 30° (b) 60°
 (c) 95° (d) 45°
- 
51. An exterior angle of a triangle is 105° and its two interior opposite angles are equal. Each of these equal angles is
 (a) $\left(37\frac{1}{2}\right)^\circ$ (b) $\left(52\frac{1}{2}\right)^\circ$ (c) $\left(72\frac{1}{2}\right)^\circ$ (d) 75°
52. In the given figure, if $x = \left(\frac{4}{3}k\right)^\circ$, then the value of k is
 (a) 80
 (b) 41
 (c) 38
 (d) 27
- 
53. The polynomial $ax^3 - 29x^2 + 45x - 9$ when divided by $(3x - 1)$ leaves remainder 3. Find the value of a . Also, find the remainder when the given polynomial is divided by $x - 2$.
 (a) 3, -19 (b) 6, -11 (c) 6, 13 (d) 9, 16
54. If the polynomial $x^3 + 2x^2 - \alpha x - 12$ is divided by $(x - 4)$ the remainder is 52. Find the value of ' α '.
 (a) 11/2 (b) -5 (c) 8 (d) -8

Rough work

55. If $x^2 + \frac{1}{x^2} = 98$, then find the value of $x^3 + \frac{1}{x^3}$.
 (a) 890 (b) 970 (c) 990 (d) 1110
56. If the sides BA and DC of quadrilateral $ABCD$ are produced as shown in the given figure, then
 (a) $x + y = a + b$ (b) $x - y = a - b$
 (c) $\frac{x - y}{2} = a - b$ (d) $2(x + y) = a + b$
- 
57. P and Q are the points of trisection of the diagonal BD of a parallelogram $ABCD$. Then which of the following is true?
 (a) CQ is parallel to AP (b) CQ is perpendicular to AP
 (c) CQ intersects AP (d) None of these
58. P is the mid-point of the side CD of a parallelogram $ABCD$. A line through C parallel to PA intersect AB at Q and DA produced at R . Then, which of the following statements is false?
 (a) $DA = AR$ (b) $CQ = QR$ (c) $APCQ$ is a parallelogram (d) None of these
59. The area of a rhombus is 20 cm^2 . If one of its diagonals is 5 cm , the other diagonal is
 (a) 5 cm (b) 6 cm (c) 8 cm (d) 10 cm
60. The area of a trapezium whose parallel sides are 9 cm & 16 cm and the distance between these sides is 8 cm , is
 (a) 60 cm^2 (b) 72 cm^2 (c) 56 cm^2 (d) 100 cm^2

Rough work

Section-V (MENTAL ABILITY)

61. Complete the series:
D3Y104, G9U91, J27Q78, M81M65
(a) P243I39 (b) Q243I52
(c) P243I52 (d) Q162J39

62. Which of the following can replace the question mark?

0.8	0.512
0.04	?

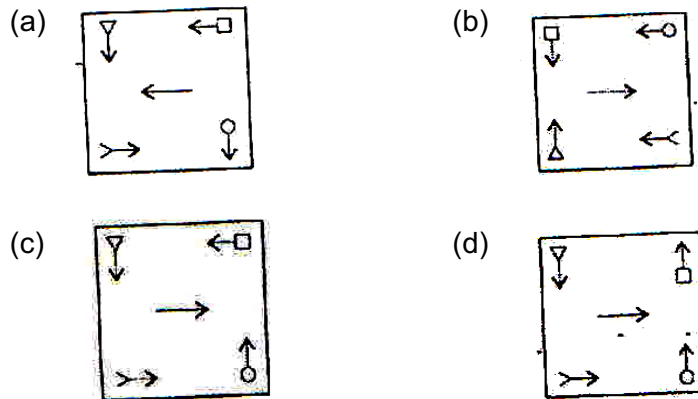
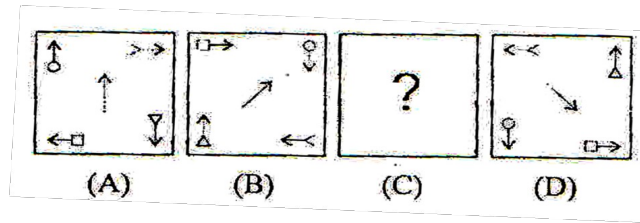
- (a) 0.0064 (b) 0.0016
(c) 0.000064 (d) 0.000016

Directions (Questions 63 -65): There are eight people A, B, C, D, E, F, G and H sitting around a circular table facing centre. B is sitting second to the left of G who is sitting third to the right of F. Only E is sitting between A and C. C is sitting third to the left of B. Only one person is sitting between E and H.

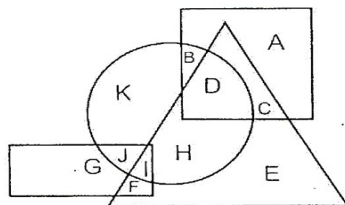
63. Which of the following is correct?
(a) D is sitting third to the left of H (b) F is sitting third to the left of G
(c) C is sitting third to the left of D (d) H is sitting second to the right of C
64. Based on the given information, which of the following is the correct position?
(a) A and C are sitting next to each other (b) F and G are sitting next to each other
(c) H and F are sitting next to each other (d) D is sitting next to H
65. Which of the following is the correct order of sitting of persons right of A?
(a) E C H D G B F (b) E C H F B D G
(c) E B H D C F G (d) C H B E D G F
66. Amita is standing at Point A facing north direction. She walks for 5 kilometers in the north east direction. Then she turns at an angle of 90° at her right and once again travels the same distance. She reaches at Point B. Now she takes a turn at 90° to her left and walks for 3 kilometers and once again takes right turn at 90° and travels 3 kilometers and reaches at Point C. What is the direction of Point B and C respectively with respect to Point A?
(a) East, East (b) East, North east
(c) North east, East (d) North east, North east

Rough work

67. In the following question, there are four figures A, B, C and D called problem figures. A and B are related in the same way as C and D are related. Which figure out of four given options will come in place of figure C?



68. In the following figures, square represents professors, circle represents males, triangle represents cricketers and rectangle represents trainers.



On the basis of information given in the above diagram, which of the following is correct?

- (a) C represents male professors who are cricketers too
- (b) I represents male trainers who play cricket
- (c) B represents male professors who are trainers
- (d) F represents male trainers who are not cricketers

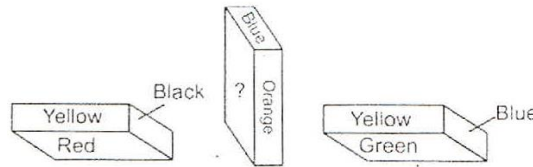
Rough work

Directions (Questions 69 – 71) : Five periods of Hindi, English, Science, Mathematics and Sanskrit are to be taken by five different teachers A, B, C, D and E in five different periods 1, 2, 3, 4 and 5. Each teacher will teach only one subject and takes only one period.

Science is not the 3rd period. 5th period is taken by D who does not teach Hindi or Sanskrit. A takes 3rd period. The one who teacher Sanskrit takes 4th period. There are two periods after and two periods before Mathematics period. Hindi period is between Science and Mathematics period. B teaches Science. E takes period just before D's period.

After reading the above information, answer the following questions.

69. Who teaches Hindi and in which period?
 (a) C teaches Hindi in 2nd period (b) E teaches Hindi in 1st period
 (c) C teaches Hindi in 4th period (d) Data is inadequate
70. Which of the following is the correct sequence of subject period teacher?
 (a) Mathematics – 3 – D (b) Sanskrit – 4 – E
 (c) Mathematics – 2 – A (d) Hindi – 2 – E
71. The subject taught by teachers A, B, C, D and E respectively are
 (a) Mathematics, Science, Hindi, Sanskrit, English
 (b) Mathematics, Science, English, Hindi, Sanskrit
 (c) Mathematics, Hindi, English, Sanskrit, Science
 (d) Mathematics, Science, Hindi, English, Sanskrit
72. A cuboid is painted in 6 colours, i.e., red, green, blue, yellow, orange and black, one colour on each side. Three position are shown below:



What is the colour of the side having question mark?

- (a) Red (b) Yellow (c) Green (d) Blue

Rough work

73. Read the information carefully and answer the following question.
A family has husband, wife and three children A, B and C. The present age of husband is 5 years more than the wife's present age. Wife's present age is twice the present age of A. The present age of A is 12 years more than the present age of B. B's present age is $1\frac{1}{2}$ times the present age of C. If C is 12 years old at present. What is the present age of husband's friend Ram who is 15 years younger than husband (him)?
(a) 30 years (b) 50 years
(c) 60 years (d) 80 years

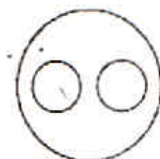
74. If REASON is coded as PGYUMP, then DIRECT will be coded as?

(a) BKPGAV (b) FKTGEV (c) FGTCER (d) BGPCAR

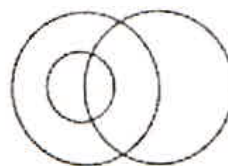
Directions (Questions 75 -76): Pritam, Zeba, Joy and Anu were assigned duties in the English language alphabetical order of their names. Only one of them is assigned a duty on a day. This assignment is repeated in the same sequence. Working week starts from Monday and ends on Friday. Answer the following:

75. Who worked for least number of days and for how many days if the duties assigned for 3 weeks?
(a) Anu, 3 days (b) Anu, 4 days
(c) Zeba, 3 days (d) Zeba, 4 days
76. Who were assigned duties on Wednesday in 1st, 2nd and 3rd weeks respectively?
(a) Pritam, Zeba, Anu (b) Pritam, Anu, Zeba
(c) Pritam, Joy, Anu (d) Joy, Zeba, Anu
77. In a showroom, 60 percent discount is given to everybody on all the articles. The successive discount of 40 percent is offered to female students. If printed price of an article of Rs 1000/- is bought by a female student, how much she will have to pay for that article?
(a) Inconclusive (b) Zero
(c) Rs 160/- (d) Rs 240/-
78. Which of the following diagrams indicates the best relation among men, fathers and teachers?

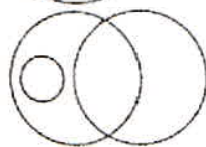
(a)



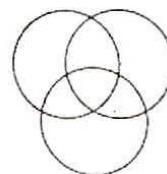
(b)



(c)

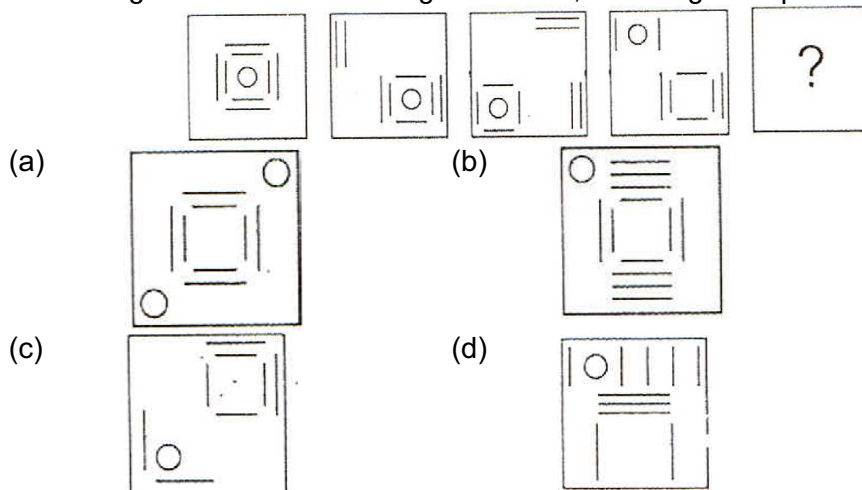


(d)



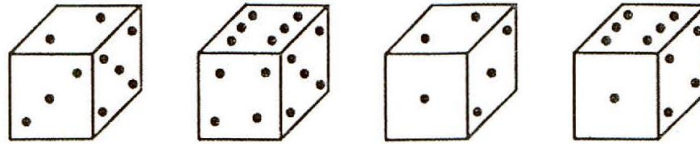
Rough work

79. Guitar : Music : : Book : ?
 (a) Pages (b) Writer
 (c) Publisher (d) Knowledge
80. Reena, Rita and Zoha are three friends. Reena is the eldest followed by Rita and Zoha. Reena is 2 years elder to Rita and 5 years elder to Zoha. The sum of the present age of Reena and Zoha is 3 times the age of Rita 5 years ago. What is the current age of Rita?
 (a) 12 years (b) 14 years
 (c) 16 years (d) 18 years
81. During her morning walk in the park, Tanya saw Monica coming from the opposite direction. They greeted each other and had a face to face chatting. If Monica's shadow was to the right of Tanya, then which direction was Monica facing?
 (a) North (b) East
 (c) West (d) South
82. Given below is a question and two statements I and II. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both statements carefully and give the answer.
 Question: A, B, C, D and E are sitting in a row, not in that order. A is sitting next to E. Is E sitting between A and C?
 Statements:
 I. B and D are sitting at the two ends of the row.
 II. C is not sitting next to A.
 (a) I alone is sufficient (b) II alone is sufficient
 (c) Both I and II together (d) Both I and II together are not sufficient
83. A person needs to find the fastest two horses from 16 horses. Only a race of 4 horses can be conducted at a time. What is the minimum number of races to be conducted to determine the fastest two? Assume that horses will not get tired at all, and time cannot be measured.
 (a) 6 (b) 7
 (c) 8 (d) 15
84. Which letter replaces the question mark?
 b c e g k ? q s
 (a) i (b) m
 (c) n (d) o
85. From among the four alternatives given below, which figure replaces the question mark?



Rough work

86. How many points will be on the face opposite to the face which contains 2 points?



- (a) 1 (b) 5
(c) 4 (d) 6

87. Identify the missing number in the following sequence.

2, 10, 30, 68, ____, 222

- (a) 120 (b) 130
(c) 134 (d) 150

88. $A + B$ means A is the daughter of B, $A \times B$ means A is the son of B and $A - B$ means A is the wife of B. If $T - S \times B - M$, which of the following is NOT true?

- (a) M is the husband of B (b) B is the mother of S
(c) S is the daughter of B (d) T is the wife of S

89. In the following sequence, one number is wrong. Find the wrong number.

9, 23, 51, 106, 219, 643

- (a) 23 (b) 51
(c) 106 (d) 219

90. Which option shows the correct water image of the characters given below?

SUPE2547DLR

- (a) 20632341D7B (b) 206ES247DLR
(c) 206ES247DLR (d) 206ES247DLR

91. Ronald is elder to Veena while Amilia and Shree are elder to Parul who lies between Ronald and Amilia. If Amilia is elder to Veena, then which one of the following statements is necessarily true?

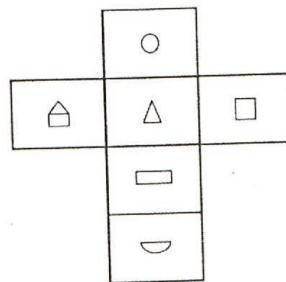
- (a) Ronald is elder to Amilia (b) Amilia is elder to Shree
(c) Parul is elder to Shree (d) Parul is elder to Veena

Rough work

92. In the following question, a matrix of certain numbers is given. These numbers follow a certain trend, either row wise or column wise. Find the trend and choose the missing number from the given alternatives.

1	5	7	75
8	3	4	?
9	7	8	194

- (a) 20
(b) 43
(c) 89
(d) 96
93. The figure given below is the unfolded position of a cubical dice. Select the option figure which is same as the figure, when it is folded



- (a)
- (b)
- (c)
- (d)

94. A wall clock is placed in a room. It chimes 8 times at 8 o' clock. A person 'X' present outside the room listens the 8 beats of chimes in 8 seconds. Assume that each chime of the wall clock takes equal time. To listen 11 chimes at 11 o' clock how much time will be required by person 'X'

- (a) 11 seconds
(b) 11.43 seconds
(c) 12 seconds
(d) 12.43 seconds

Rough work

Directions (Questions 95 – 97): Study the following information and answer the questions given below it.

Six boys Prem, Kamal, Ramesh, Shyam, Tarun and Umesh go to University Sports Center and play a different game of football, cricket, tennis, kabaddi, squash and volleyball.

A. Tarun is taller than Prem and Shyam.

B. The tallest among them plays kabaddi.

C. The shortest one plays volleyball.

D. Kamal and Shyam neither play volleyball nor kabaddi.

E. Ramesh plays volleyball.

F. If all six boys stand in order of their height then Tarun is in between Kamal and Prem; and Tarun plays football.

95. Who among them plays kabaddi?

(a) Kamal

(b) Ramesh

(c) Shyam

(c) Umesh

96. Who will be at fourth place if they are arranged in the descending order of their heights?

(a) Prem

(b) Kamal

(c) Tarun

(c) Shyam

97. Who plays tennis?

(a) Kamal

(b) Prem

(c) Tarun

(d) Information insufficient

98. What comes next in the following sequence of codes?

1218199, 1006480, 814963, 643648, _____

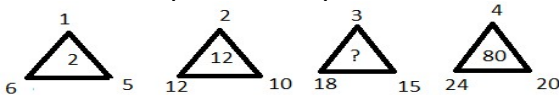
(a) 366478

(b) 1442560

(c) 492535

(d) 253634

99. What value replaces the question mark?



(a) 18

(b) 24

(c) 36

(d) 45

100. A coding does language writes English words in the coded form as

STAT θ δ θ γ

RAT δ θ β

SAY ε γ δ

The code does not appear in the same order of the letters in the English words. On this basis, which of the following will be the code of the word TRAY?

(a)	ε β θ γ	(b)	β γ δ ε
(c)	β θ δ ε	(d)	θ δ γ ε

Rough work

Rough work



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