

TEST ID : 701
MAX. MARKS : 500
EXAM DURATION : 2 HOURS

Roll No.
Name :

Exam Date :

M-STAR[★]

Momentum Scholarship Test for Admission & Rewards

8th Edition, 2023-24

Talent HUNT Exam



**Class VII Studying Students
Mathematics, Science & Logical Reasoning**

INSTRUCTIONS FOR CANDIDATE

1. This booklet is your Question Paper. Do not open this booklet before being instructed to do so by the invigilator.
2. You may complete Your Name, Roll No. on the cover page.
3. Blank spaces and blank pages are provided in this booklet for your rough work. No Additional sheet will be provided for rough work.
4. Blank papers, clipboards, log tables, slide rules, calculators, cameras, cellular phones, pagers and electronic gadgets are NOT allowed inside the examination hall.
5. **Using a Blue/Black Pen, Darken the bubbles on the OMR sheet**
6. DO NOT TAMPER WITH/MUTILATE THE OMR OR THE BOOKLET
7. In the booklet, check that all the 100 questions and corresponding answer choices are legible.
8. Write your name, class and the Father's name in the boxes provided on the right part of the OMR. Do not write any of this information anywhere else. Darken the appropriate bubble under each digit of your Roll Number and Test ID Number.
9. The question paper consists of three sections. **Section A** consists of **Mathematics**, **Section B** consists of **Science** and **Section C** consists **Logical Reasoning Questions**.
10. **Section A** contain 35 multiple choice questions, **Section B** contain 40 multiple choice questions and **Section C** contains 25 multiple choices questions. Each question has four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.
11. Marking Scheme: **+5** for correct answer, **0** for unattempted and **-1** for wrong attempt .
12. On completion of the test, the candidate must hand over the **OMR Sheet** to the invigilator on duty in the Room/Hall.



MOMENTUM

छात्रसंघ चौक, गोरखपुर | बस्ती | देवरिया



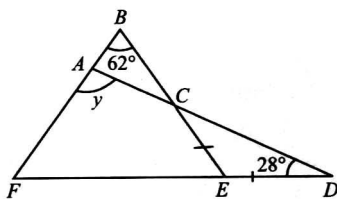
SECTION - A : Math

This section contains **35 multiple choice questions**. Each question has 4 choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

1. $\frac{25\% \text{ of } 50\% \text{ of } 100\%}{25 \text{ of } 100 \times 50\% \text{ of } 100}$ is equal to _____.

A. 0.0001%
 B. 0.1%
 C. 0.01%
 D. 1%

2. In the figure (not drawn to scale), ADF and BEF are triangles and $EC = ED$, find the value of y .



A. 90°
 B. 91°
 C. 92°
 D. 93°

3. Find the value of $\frac{(21)^{17} \times (18)^{21} \times 128}{(6)^7 \times (28)^4}$.

A. $2^{11} \times 3^{53} \times 7^{14}$
 B. $2^{13} \times 3^{53} \times 7^{13}$
 C. $2^{14} \times 3^{23} \times 7^{13}$
 D. $2^{13} \times 3^{52} \times 7^{13}$

4. Which of the following value will replace X in the given expression?

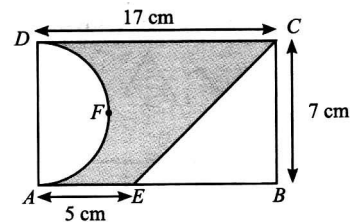
$$(-91) \div X + 68 \div (-17) = -11$$

A. 13
 B. 7
 C. 12
 D. 9

5. The sum of the digits of a two-digit number is 10. If ten's digit is one more than two times of unit's digit, then find the number.

A. 82
 B. 73
 C. 64
 D. 91

6. In the given figure (not drawn to scale), $ABCD$ is a rectangle in which CE intersects AB at point E and $ADFA$ is a semicircle whose diameter is AD . What is the area of the unshaded region of the given figure?



A. 71.25 cm^2
 B. 67.75 cm^2
 C. 61.25 cm^2
 D. 77.75 cm^2

7. If two supplementary angles are in the ratio 4 : 5, then find the difference between the angles.

A. 78°
 B. 54°
 C. 126°
 D. 20°

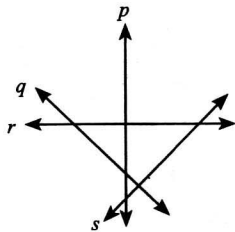
8. The sum of three rational numbers is $\frac{17}{48}$. If two of them are $\frac{-7}{8}$ and $\frac{5}{12}$, then find the third rational number.

A. $\frac{7}{16}$
 B. $\frac{5}{18}$
 C. $\frac{13}{16}$
 D. $\frac{11}{18}$

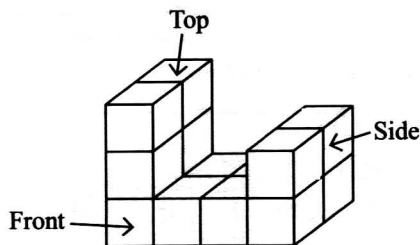
9. Find the value of $2a^2 + b^2 + 5ab + 9$, when $a = -3$ and $b = -2$.

A. 14
 B. 61
 C. 74
 D. 45

10. The average weight of 10 students of class 7 is 36 kg. If the average weight of 8 of them is 34 kg, then find the sum of weights of remaining two students.
- A. 88 kg
 B. 45 kg
 C. 70 kg
 D. None of these
11. Find the number of pairs of intersecting lines in the given figure.



- A. 3
 B. 4
 C. 5
 D. 6
12. Which of the following options shows the front view of the given figure?



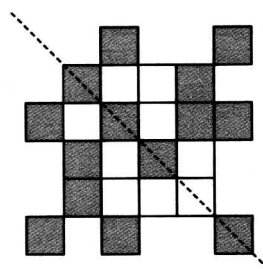
- A.
- B.
- C.
- D.

13. If $\frac{3}{7}$ of a number is 33.75, then what is the value of $\frac{5}{7}$ of that number?
- A. 78.50
 B. 65.75
 C. 68.25
 D. 56.25

14. Which of the following options shows the integers arranged in descending order?
- A. -43, -37, -12, 0, 6, 18
 B. -43, -12, -37, 0, 6, 18
 C. 18, 6, 0, -12, -37, -43
 D. 18, 6, 0, -43, -37, -12

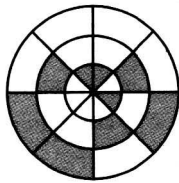
15. Which of the following numbers is not divisible by 8?
- A. 765176
 B. 556764
 C. 772648
 D. 555112

16. How many minimum number of shaded squares must be unshaded to make the given figure symmetric along the dotted line?

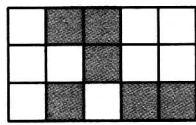


- A. 1
 B. 2
 C. 3
 D. 4
17. Find the difference between the place values of two 7's in 476785.
- A. 9300
 B. 67400
 C. 25700
 D. 69300

18. Find the sum of shaded fractions of the given figures.

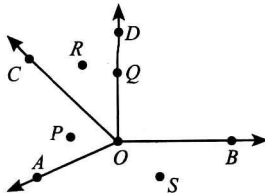


(i)



(ii)

- A. $\frac{23}{25}$
 B. $\frac{31}{40}$
 C. $\frac{27}{40}$
 D. $\frac{13}{27}$
19. For which value of x , the given ratios will form a proportion?
 $35 : 65 :: 56 : x$
- A. 91
 B. 78
 C. 117
 D. 104
20. Which of the following points will lie to the exterior of $\angle COD$?



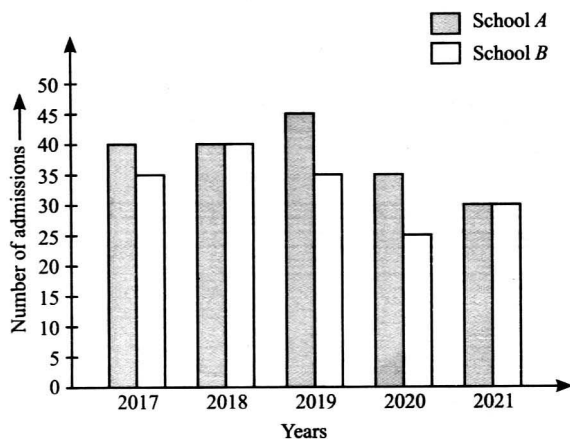
- A. Q, B and S
 B. Q, B, S and P
 C. B, S, A and P
 D. C, P, A and S
21. The given observations shows the number of masks sold by a shopkeeper on different days of a week.

37, 57, 48, 33, 39, 64, 86

Find the average sale of masks sold.

- A. 54
 B. 47
 C. 49
 D. 52
22. A farmer borrowed ₹ 5500 at 8% per annum. After 5 years, he cleared the account by giving ₹ 6000 and a cow. Find the cost of the cow.
- A. ₹ 2100
 B. ₹ 1900
 C. ₹ 1700
 D. ₹ 1500
23. Radhika earns ₹ 20000 per month. She spends $\frac{1}{5}$ of her income on food, $\frac{3}{10}$ of the income on house rent and $\frac{9}{20}$ of income on the education of children. How much money is still left with her?
- A. ₹ 1000
 B. ₹ 8500
 C. ₹ 1050
 D. ₹ 9500
24. Aayush bought a school bag for ₹ 736.45 and a belt for ₹ 384.85. He gave a note of ₹ 2000 to the shopkeeper. How much amount will he get back from the shopkeeper?
- A. ₹ 878.70
 B. ₹ 935.35
 C. ₹ 694.75
 D. ₹ 782.65
25. There are three places A, B, C in a straight line as shown below. If distance between place A and B is (2.4×10^6) m and distance between place B and C is (5.2×10^5) m, then find the distance between place A and C in standard form.
-
- A. (292×10^6) km
 B. (2.92×10^6) m
 C. (292×10^3) m
 D. (2.92×10^4) m
26. To reach school from his house, Rachit went 12 km towards South, then 5 km towards West. What is the shortest distance between Rachit's house and his school?
- A. 13 km
 B. 14 km
 C. 15 km
 D. 16 km

27. Samar divides his wealth among his three sons Sahil, Varun and Amit in the ratio of 5 : 3 : 7. If Varun gets ₹ 73,125, then find the total wealth of Samar.
- A. ₹ 2,75,875
B. ₹ 3,65,625
C. ₹ 3,75,825
D. ₹ 2,65,675
28. Amaira purchased a rectangular colour paper sheet of length 222 cm and breadth 138 cm to make greeting cards. How many greeting cards of square shape having side 6 cm can she make from it?
- A. 876
B. 768
C. 851
D. None of these
29. Ankush got ₹ 500 on his birthday. On the next day, he got ₹ 350 as pocket money from his father and spent ₹ 275 on repairing his cycle. On the next day, his sister gave him ₹ 170 as a reward. Now, how much total money will be left with him?
- A. ₹ 745
B. ₹ 650
C. ₹ 750
D. ₹ 845
30. In an examination, the maximum marks obtained is 3 more than 5 times the minimum marks obtained. If the maximum marks obtained is 24, then form the equation which will calculate the minimum marks.
- A. $x = 24 + 8$
B. $24 = 5x + 3$
C. $24x + 3 = 5$
D. None of these
31. The given bar graph shows the number of admissions taken by schools A and B in Science stream from 2017 to 2021. Study the graph carefully and answer the following questions.



- (a) Find the average number of admissions taken by school A from year 2017 to 2021.
- (b) What is the ratio of number of admissions taken by school A to that by school B in years 2018, 2019 and 2021 altogether?

(a) (b)

- A. 74 21 : 19
B. 38 18 : 17
C. 71 18 : 17
D. 38 23 : 21

32. Read the given statements carefully and select the correct option.

Statement-I : If $3m - 2 = \frac{6}{5}m + 1$, then the value of $3m$ is 5.

Statement-II : A number m is 5 less than three times of the number n . If the value of m is 49, then the value of n is 16.

- A. Both Statement-I and Statement-II are true.
B. Both Statement-I and Statement-II are false.
C. Statement-I is true but Statement-II is false.
D. Statement-I is false but Statement-II is true.

33. Match the following and select the correct option.

Column I

Column II

(P) If $(16)^{2x + \frac{3}{2}} = (8)^{\frac{2x}{3} + \frac{19}{6}}$, (i) $\frac{1}{(3)^2}$

then $x = \underline{\hspace{2cm}}$.

(Q) $\frac{5^2 \times 35^2 \times 9^0}{49 \times 125 \times 45} = \underline{\hspace{2cm}}$. (ii) $2^0 \times 2^1$

(R) $(-1)^4 - (-1)^5 = \underline{\hspace{2cm}}$. (iii) $\frac{7}{2^2 \times 3}$

- A. (P) → (iii); (Q) → (ii); (R) → (i)
B. (P) → (ii); (Q) → (i); (R) → (iii)
C. (P) → (iii); (Q) → (i); (R) → (ii)
D. (P) → (i); (Q) → (ii); (R) → (iii)

34. Read the given statements carefully and state 'T' for true and 'F' for false.

- (i) In a shop, there are 1500 oranges. If 45% of the oranges are rotten, then the number of rotten oranges is 675.
- (ii) In a school, if 35% of the students are girls and 260 students are boys, then number of girls in the school is 150.
- (iii) 80% of 5 is 4.

	(i)	(ii)	(iii)
A.	T	T	F
B.	T	F	T
C.	F	T	T
D.	F	F	T

35. Answer the following questions and select the correct option.

- (a) A wire of length 352 cm is bent to form a circle. What is the area of the circle formed?
- (b) A parallelogram PQRS has two sides PQ and QR are 14 cm and 8 cm. If the height corresponding to PQ is 4 cm, then find the height corresponding to QR.

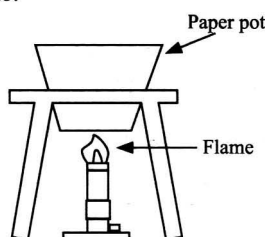
	(a)	(b)
A.	9896 cm ²	8 cm
B.	6844 cm ²	6 cm
C.	6844 cm ²	8 cm
D.	9856 cm ²	7 cm

Space for rough work

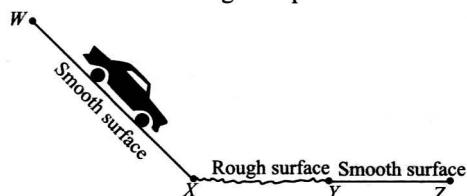
SECTION - B : Science

This section contains **40 multiple choice questions**. Each question has 4 choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

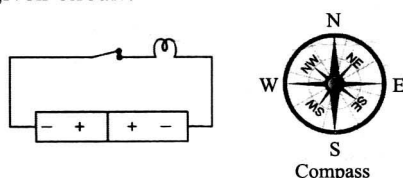
36. There is a steamboat restaurant which uses paper pots for the consumers to boil the food themselves as shown schematically. Identify the correct reasons for the paper not to catch fire when it is in contact with the flame.



- (i) The paper is thin and therefore heat is conducted quickly to the water in the paper pot.
 (ii) Water has a boiling point lower than the burning temperature of the paper.
 (iii) The paper is thick enough to withstand the high temperature of the flame.
- A. (i) and (ii) only
 B. (i) and (iii) only
 C. (ii) and (iii) only
 D. (i), (ii) and (iii)
37. A car slides down on inclined surface WX and moves horizontally along XZ as shown in the figure. XY is a rough surface while WX and YZ are frictionless. The car moves with a constant speed on its path between which of the following two points?



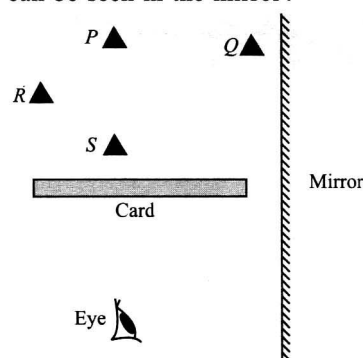
- A. X and Y
 B. Y and Z
 C. W and X
 D. X and Z
38. Which of the following statements is incorrect for the given circuit?



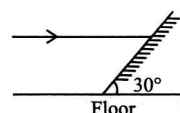
- A. The battery is not connected properly in the circuit.
 B. When compass is kept near the circuit, it will not show any deflection.
 C. The bulb in the given circuit will not glow.
 D. Due to battery in this circuit, connecting wire behaves as a magnet.

39. An electrical appliance is earthed to _____
- A. Prevent the power supply from over loading
 B. Prevent the fuse from blowing
 C. Prevent the leakage of current and minimize the risk of electric shock
 D. Avoid excess current flowing through the appliance

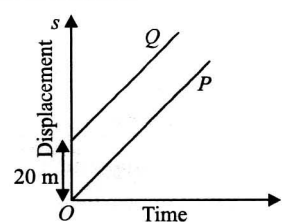
40. The diagram shows four objects P , Q , R and S in the front of a mirror. The card prevents the observer's eye from seeing the objects directly. Which object's image(s) can be seen in the mirror?



- A. Object Q
 B. Object P
 C. Object R
 D. Objects P and S
41. A ray of light travelling parallel to the floor, strikes a plane mirror which is inclined at an angle 30° as shown in the figure. What is the angle of reflection of the ray?

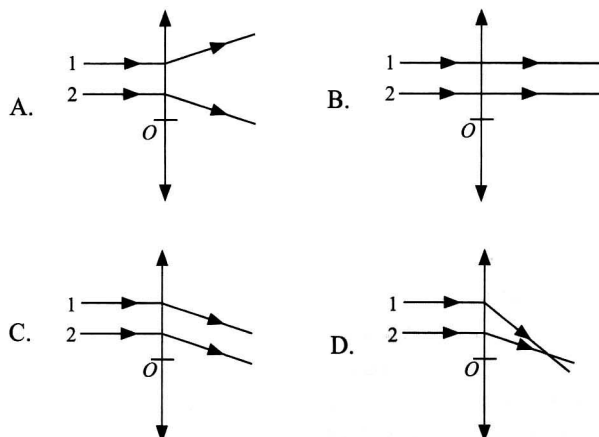


- A. 30°
 B. 60°
 C. 120°
 D. 90°
42. The displacement-time graph of two bodies P and Q are shown in the figure. Which of the following statements is correct?

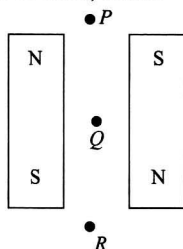


- A. P is moving faster than Q .
 B. Q is moving faster than P .
 C. Q is always 20 m behind P .
 D. P is always 20 m behind Q .

43. When two parallel rays of light (1 and 2) enter a convex lens with the optical centre at O , which one of the following ray diagrams (vertical arrow represents the lens) correctly represents the passage of the rays after passing through the lens?



44. Two bar magnets are placed parallel to each other with opposite poles facing each other as shown in the figure. The point(s) where magnetic field due to these bar magnets is zero, is/are



- A. Q only
 B. P only
 C. P and Q only
 D. P , Q and R
45. Which of the following statements is incorrect?
- A. The warm air is lighter than the cold air.
 B. Air expands on heating and contracts on cooling.
 C. Increased wind speed is accompanied by increase in air pressure.
 D. Greater the difference in pressure between two regions, faster the air moves.

46. Study the given table carefully.

Substances	Colour with China rose indicator
P	Green
Q	Magenta

P and Q could be respectively

- A. Calamine solution and lemon juice
 B. Baking soda and sugar
 C. Window cleaner and lime water
 D. Soda water and washing soda.

47. Which of the following changes cannot be reversed?
- A. Wet clothes to dry clothes
 B. Raw egg to boiled egg
 C. Cold water to hot water
 D. Straight string to a coiled string

48. Read the given statements and select the correct option.

Statement 1 : Acids are substances which produce hydrogen ions when dissolved in water.

Statement 2 : Acids are bitter in taste.

- A. Both statement 1 and statement 2 are true and statement 2 is the correct explanation of statement 1.
 B. Both statement 1 and statement 2 are true but statement 2 is not the correct explanation of statement 1.
 C. Statement 1 is true but statement 2 is false.
 D. Both statement 1 and statement 2 are false.
49. Rashi has classified a few changes around us as shown in the table.

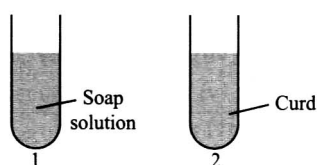
S.No	Change	Type of change
1.	Browning of sliced brinjal	Physical, irreversible
2.	Getting pure crystals of copper sulphate from saturated solution of copper sulphate	Physical, reversible
3.	Baking of a cake	Chemical, reversible
4.	Respiration	Chemical, irreversible
5.	Making sugar solution	Physical, reversible

The changes classified correctly are

- A. 3 and 5 only
 B. 2, 4 and 5 only
 C. 1 and 5 only
 D. 2 and 4 only.
50. Substance U is hard, V is transparent while W sinks in water. U , V and W could be respectively
- A. Gold coin, metal can and cotton ball
 B. Diamond, clear glass and stone
 C. Sponge, frosted glass and wooden block
 D. Steel spoon, wood and plastic.
51. Which of the following statements are incorrect regarding chemical changes?

- I. No new substance is formed during a chemical change.
 II. Heat or light or both may be given off or absorbed during a chemical change.
 III. New substances having different properties from the original substance are formed.
 IV. Chemical changes are generally reversible.

- A. I and IV only
 B. I, II and III only
 C. II and III only
 D. II and IV only
52. Which of the following mixtures can be separated via sedimentation and decantation method?
- A. Naphthalene and sand
 B. Sugar from its solution in water
 C. Copper sulphate crystals from copper sulphate solution
 D. Chalk powder and water
53. Select the correct statements regarding solutions given in test tubes 1 and 2.



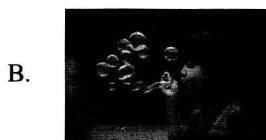
- I. Solution 1 will turn methyl orange indicator red.
 II. Solution 2 will turn turmeric indicator red.
 III. Solution 1 will turn methyl orange indicator yellow.
 IV. Solution 2 will turn China rose indicator magenta.
- A. I and II only
 B. III and IV only
 C. I and III only
 D. II and IV only
54. X is a flexible tissue that joins bone to bone and helps them to move. X could be a _____.
- A. Bone marrow
 B. Ligament
 C. Cartilage
 D. Tendon
55. Method best suitable for disposal of biomedical waste, i.e., used syringes, blood sample, etc., is
- A. Recycling
 B. Incineration
 C. Vermicomposting
 D. All of these.
56. Read the given statements and select the correct option.
- Statement 1** : Cotton fibres are separated from the seeds by spinning.
Statement 2 : The process of separating jute fibres from the jute plant is called combing.
- A. Both statements 1 and 2 are true.
 B. Statement 1 is false but statement 2 is true.
 C. Statement 1 is true but statement 2 is false.
 D. Both statements 1 and 2 are false.

57. Select the incorrect match.
- A. Desert habitat – Kangaroo rat, Reindeer, Zebra
 B. Mountain habitat – Yak, Snow leopard, Mountain goat
 C. Polar habitat – Penguin, Polar bear, Walrus
 D. Grassland habitat – Elephant, Giraffe, Lion
58. Identify the type of nutrient provided by the food items shown in the given picture and select the correct statement regarding it.



- A. It provides energy to our body and hence known as energy-giving food.
 B. It helps our body to grow new cells and replace old and damaged cells.
 C. It helps to keep our eyes, skin and gums healthy.
 D. All of these
59. Read the given sentences and select the option that correctly identifies the fibre.
- It is the strongest natural fibre.
 - Fabric made from this fibre is smooth and has unique lusture.
 - It is obtained by killing an insect.
- A. Silk
 B. Cotton
 C. Jute
 D. Acrylic
60. Which of the following is the correct path of oxygen in humans during inhalation?
- A. Nostrils → Nasal cavity → Pharynx → Trachea → Bronchi → Bronchiole → Alveoli
 B. Nostrils → Nasal cavity → Trachea → Pharynx → Bronchi → Bronchiole → Alveoli
 C. Nostrils → Nasal cavity → Pharynx → Trachea → Alveoli → Bronchi → Bronchiole
 D. Nostrils → Nasal cavity → Pharynx → Bronchi → Trachea → Bronchiole → Alveoli

61. Which of the following activities require(s) air?



D. All of these

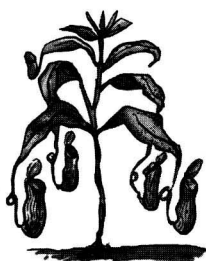
62. Select the incorrect match.

	Fruit/Seed	Agent of dispersal	Adaptability for dispersal
A.	<i>Acer</i>	– Wind	– Winged seeds
B.	Dandelion	– Water	– Hairy seeds
C.	Coconut	– Water	– Fibrous outer coat
D.	<i>Urena</i>	– Animals	– Hooks in fruits

63. Which of the following options gives the correct categorisation of animals according to the types of nitrogenous waste they give out?

	Ammonotelic	Ureotelic	Uricotelic
A.	Leech, sponge	Shark, frog	Lizard, pigeon
B.	Earthworm, frog	Lizard, sponge	Pigeon, shark
C.	<i>Amoeba, Hydra</i>	Turtle, cockroach	Human, toad
D.	Leech, crocodile	Lizard, land snail	Cockroach, sparrow

64. Identify the plant shown in the given picture and select the correct statement regarding it.



- A. Leaves of this plant get modified to form a pitcher like structure.
 B. This plant is a saprophyte and the mode of nutrition it exhibits is saprophytic.
 C. The plant is green and can photosynthesise.
 D. Both A and C

65. A list of few plants is given in the box.

(i) Beans	(ii) Gram
(iii) <i>Cuscuta</i>	(iv) Wheat
(v) Rice	(vi) Lentil
(vii) Palm	

How many of these are leguminous plants?

- A. 3
 B. 4
 C. 5
 D. 6

66. Select the correct match.

- A. Shearing – Cleaning of wool with soap
 B. Reeling – Extracting silk fibre from cocoon
 C. Mulberry leaves – Food of silkworm
 D. Both B and C

67. Refer to the given list of animals.

(i) Fennec fox	(ii) Elephant
(iii) Macaw	(iv) Seal
(v) Red-eyed tree frog	(vi) Toucan
(vii) Penguin	(viii) Camel

Which among them are found in tropical rainforests?

- A. (i), (vi) and (vii) only
 B. (i), (iv), (vii) and (viii) only
 C. (ii), (iii), (v) and (vi).only
 D. (i), (ii), (iv) and (vii) only

68. What will be the consequence(s) of absence of forests?

- A. Increase in the amount of CO₂ in air
 B. Increase in incidents of floods and droughts
 C. Extinction of few species
 D. All of these

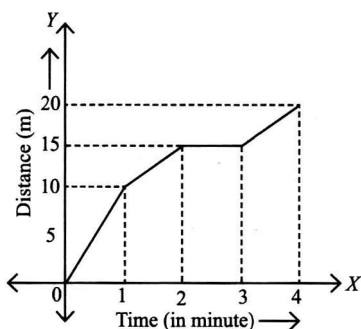
69. Select the incorrect statement.

- A. The number of times heart beats in a minute is called the heart rate.
 B. The circulation of blood from heart to lungs and from lungs to heart is called systemic circulation.
 C. Nephrons purify blood and remove excess salt and urea from it.
 D. When the transpiration rate is higher than the rate of absorption of water from the root hair, the plant droops down.

70. Select the correct match.

- A. Leech – Tracheal respiration
 B. Grasshopper – Branchial respiration
 C. Fish – Cutaneous respiration
 D. Horse – Pulmonary respiration

71. For an object, distance versus time graph is along X and Y axes, as shown below. The average speed of the object is _____.

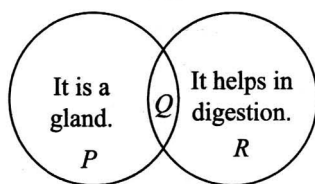


- A. 0.053 m s^{-1}
 B. 0.083 m s^{-1}
 C. 5 m s^{-1}
 D. 1.253 m s^{-1}
72. A few changes that occur around us are classified in the following table.

S. No.	Change	Physical Change	Chemical Change	Reversible Change
1.	Batter to <i>idli</i>	✗	✓	✗
2.	Melting of wax	✗	✓	✓
3.	Rusting of iron	✗	✓	✗
4.	Glowing of bulb	✓	✗	✓
5.	Tearing of paper	✓	✗	✓

The changes classified correctly are

- A. 1, 4 and 5 only
 B. 1, 3 and 4 only
 C. 2, 3 and 4 only
 D. 2, 4 and 5 only.
73. Refer to the given Venn diagram and select the incorrect statement regarding P , Q and R .

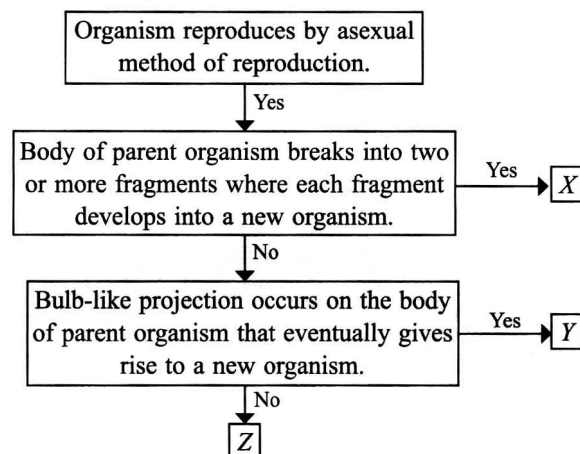


- A. P could be salivary gland, Q could be liver and R could be pancreas.
 B. Q could be the largest gland in human body that helps in digestion of fats.
 C. R could be the longest part of alimentary canal.
 D. Q could be a leaf-shaped structure present below the stomach and R could be an organ that kills the bacteria present in food.

74. Read the given statements and select the option that identifies the correct ones.

- (i) Forest fires are often caused due to lightening.
 (ii) In a forest, the vegetation that grows under the shade of the canopy is called understory.
 (iii) In the absence of forest cover, soil erosion is less.
 (iv) Humans depend on forests for timber, resin, lac, etc.
 (v) Canopy receives least amount of sunlight among all the layers of the forest.
- A. (i) and (iv) only
 B. (i), (ii) and (iv) only
 C. (iii) and (iv) only
 D. (i), (ii), (iv) and (v) only

75. Refer to the given flow chart and select the option that correctly identifies X , Y and Z .

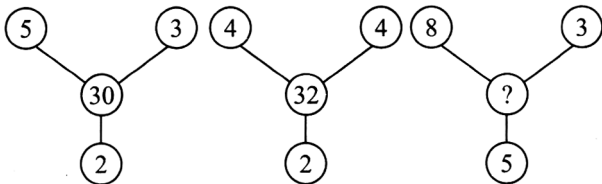


- | | X | Y | Z |
|----|--------------------|----------------|---------------|
| A. | <i>Spirogyra</i> | <i>Hydra</i> | Fern |
| B. | <i>Bryophyllum</i> | <i>Dahlia</i> | Yeast |
| C. | Moss | <i>Begonia</i> | Yeast |
| D. | Yeast | Bread mould | <i>Dahlia</i> |

SECTION - C : Logical Reasoning

This section contains **25 multiple choice questions**. Each question has 4 choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

76. Find the missing number, if same rule is followed in all the three figures.



- A. 110
- B. 120
- C. 80
- D. 95

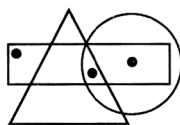
77. How many such pairs of letters are there in the word **ORDINAL** each of which has the same number of letters between them as in the English alphabets?

- A. One
- B. Two
- C. Three
- D. None

78. If ‘-’ stands for division, ‘+’ stands for multiplication, ‘÷’ stands for subtraction and ‘×’ stands for addition, then find the value of $75 \times 5 \div 80 - 16 + 3$.

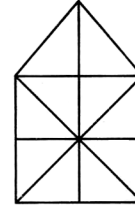
- A. 60
- B. 70
- C. 80
- D. 65

79. Which of the following options does not satisfy the same conditions of placement of dots as in the given figure?



- A.
- B.
- C.
- D.

80. Find the number of triangles formed in the given figure.

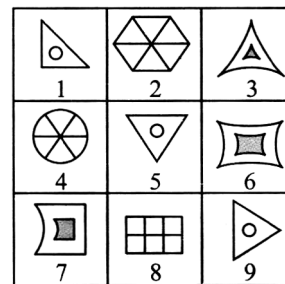


- A. 18
- B. 15
- C. 17
- D. More than 18

81. Select the odd one out.

- A. 43
- B. 80
- C. 15
- D. 90

82. Group the given figures into three classes on the basis of their identical properties using each figure only once.



- A. 1, 2, 3; 4, 6, 9; 5, 7, 8
- B. 1, 5, 6; 2, 3, 4; 7, 8, 9
- C. 1, 5, 9; 2, 4, 8; 3, 6, 7
- D. 1, 2, 4; 5, 6, 8; 3, 7, 9

83. How many 2's are there in the given sequence each of which is immediately preceded by an odd number but not immediately followed by 4?

4 5 2 9 7 6 2 1 5 2 8 9 3 4 5 7 9 2 4

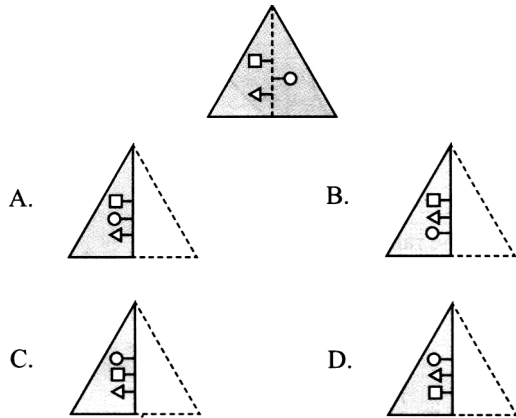
- A. None
- B. One
- C. Two
- D. More than two

84. There is a certain relationship between the terms on the either side of ::. Identify the relationship on left pair and find the missing term.

BHN : EKQ :: DJP : ?

- A. EKQ
- B. GMS
- C. HLR
- D. JPV

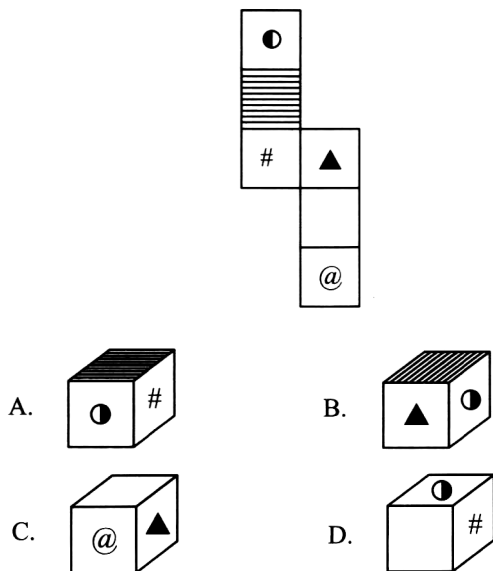
85. A transparent sheet with a pattern and a dotted line on it is given. Select a figure from the options as to how the pattern would appear when the transparent sheet is folded along the dotted line.



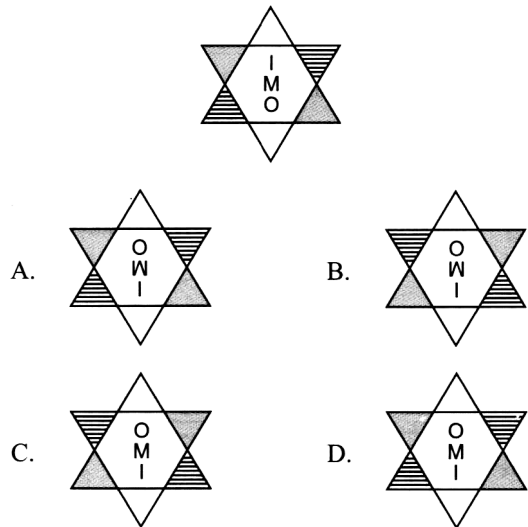
86. Pointing towards Shikha, Vansh said, “She is the daughter of the only child of my grandfather.” How is Shikha related to Vansh?

- A. Daughter
- B. Mother
- C. Sister
- D. Aunt

87. Choose a box from the options that is similar to the box formed when the given sheet is folded to form a box.



88. Find the correct water image of the given figure.



89. In a certain code language, INACTIVE is coded as CXGVACLK. How will OPERATOR be coded in the same code language?

- A. PGNQPQRC
- B. NODQBUPS
- C. PQRCPGNQ
- D. PQFSBUPS

90. Manish walks 10 m towards South. From there, he walks 6 m towards North. Then he walks 3 m towards West. How far and in which direction is he now with respect to his starting point?

- A. 7 m, North-West
- B. 5 m, South-East
- C. 5 m, South-West
- D. 7 m, North-East

91. Find the missing number to complete the given number pattern.

0, 2, 6, 12, 20, 30, ?

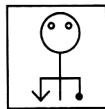
- A. 40
- B. 42
- C. 36
- D. 48

92. Rohan walks 7 km towards South and then turns to the right and walks for 3 km. Then, he turns to the left and walks for 10 km. Which direction is he facing now?

- A. West
- B. North
- C. South
- D. East

93. In a certain code language, BAND is coded as 2573 and READ is coded as 4153. What will be the code for BEAR in the same code language?
- A. 2143
 - B. 2154
 - C. 2341
 - D. 2145

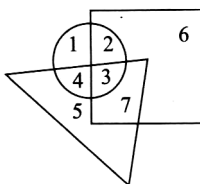
94. Select the correct water image of the given figure.



- A.
- B.
- C.
- D.

95. Pointing towards Sneha, Puneet said, "She is the only daughter of my brother's father's wife". How is Sneha related to Puneet?
- A. Cousin
 - B. Sister
 - C. Mother
 - D. Aunt

96. In the given Venn diagram, square, triangle and circle represent the area in which mango, apple and orange trees are grown respectively. Which of the following numbers represents the common area in which all the three types of fruits are grown?



- A. 2
- B. 3
- C. 5
- D. 7

97. Arrange the following words in a meaningful sequence and select the correct option.

- 1. House
- 2. Street
- 3. Town
- 4. Room

- 5. District
- A. 4, 2, 1, 5, 3
- B. 4, 2, 1, 3, 5
- C. 4, 1, 2, 3, 5
- D. 4, 1, 2, 5, 3

98. If A stands for '+', B stands for '-' and C stands for '×', then find the value of (14 A 10) B (14 C 2).

- A. 4
- B. - 4
- C. 12
- D. -12

99. Three different positions of a dice are shown here. Which symbol will be at the top, when '#' is at the bottom?



- A. ©
- B. @
- C. ★
- D. ●

100. In a class, Rashmi is 12th from the top. If her position is shifted towards the bottom by three places, then she becomes 5th from the bottom. How many children are there in the class?

- A. 20
- B. 21
- C. 19
- D. None of these

Space for rough work

MOMENTIAN'S RESULTS - 2023

Our Students Shine in JEE Advanced



DIVYAMAN PAL

AIR - 1023

IIT Kanpur, Civil



SWETA CHANDRA

AIR - 2352

IIT Kharagpur, Civil



ANSHUMAN

AIR - 3359

NIT Patna, C.S



KUMAR ARPIT

AIR - 4294

IIT Hyderabad, C.S



VANSHIKA TULSYAN

AIR - 5601

IIT Dhanbad

Our Students Shine in NEET



PRANSHU PRIYA

Score: 686 / 720

IMS BHU, Varanasi



SHREYANSH JAISWAL

Score: 670 / 720

KGMU, Lucknow



SAWAI SUTHAR

Score: 651 / 720

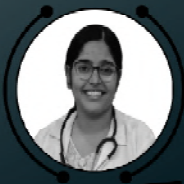
Rabindranath Tagore
Medical College, Udaipur



AAKASH PANDEY

Score: 640 / 720

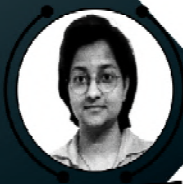
BRD Medical College,
Gorakhpur



PRAGATI MISHRA

Score: 635 / 720

Govt. Medical College
Ayudhya



MANVI VERSHANEY

Score: 622 / 720

ASMC, Pratapghar


MOMENTUM

IIT-JEE | NEET | Foundations

(A Division of Momentum Eduserve Pvt. Limited)

Head Office : Chhatra Sangh Chowk, Gorakhpur

Mob. No. 6390903200, 6390903201




Branch Office : Awasi Vikas (Near Kali Mandir), Basti


Ph: +91-6390903210, 6390903211





Branch Office : Tahsil Road (Tahsil Gate), Deoria

Ph: +91-6390903213, 6390903214

 www.momentum.ac.in

 support@momentum.ac.in

 [momentum.ac.in](https://www.facebook.com/momentum.ac.in)

 twitter.com/momentum_gkp