

SAMPLE PAPER

CLASS : 6



Total Questions : 60

Duration : 2 Hrs.

Paper Pattern

Section	(A) Physics	(B) Chemistry	(C) Biology	(D) Mathematics	(E) Logical Reasoning & IQ
Number of Questions	7	6	7	30	10

Marking Scheme: +4 For Correct Answer (There is no negative for wrong answer)

Syllabus

Section A – • Motion and Measurement of Distances • Light, Shadows and Reflections

Section B – • Fibre to Fabric • Sorting materials into Groups

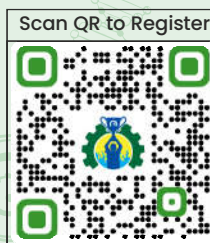
Section C – • Food : Where does it come from? • Components of food

Section D – • Knowing our Numbers • Whole Numbers • Playing with Numbers • Basic Geometrical Ideas • Integers

Section E – • Series : Number, Alphabet and Letter repeating series • Direction sense • Mirror & Water Image • Ranking and Ordering
• Mathematical Operation • Paper Folding and Cutting

Instructions :

- This Booklet is your **Question Paper**. DO NOT break seal of Booklet until the invigilator instructs to do so.
- The Answer Sheet is provided to you separately which is a machine readable **Optical Response Sheet (ORS)**. You have to mark your answer in the ORS by darkening bubble, as per your answer choice, by using **Black/Blue** ball point pen only.
- If you are found involved in cheating or disturbing others then your ORS will be cancelled.
- Do not put any stain on ORS and hand it over back properly to the invigilator.
- You can take along the question paper after test over.



MATRIX

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PART II : CHEMISTRY

This section contains **06 Multiple Choice Questions**. Each question has four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

8. Which of the following statements is incorrect?
- (A) Some materials appear shiny, while others appear dull
 (B) Some materials are rough, while others are smooth
 (C) Certain materials are hard, while others are soft
 (D) Some stones are transparent, while some glasses are opaque
9. The clothes are made up of thinner and thinner strands called :
- (A) Yarn (B) Thread
 (C) Fibre (D) Fabric
10. Choose the odd one out of the given options below :
- (A) Gold (B) Silver
 (C) Diamond (D) Plastic
11. From the given options, choose the one that does not belong to the group.
- (A) Milk (B) Honey
 (C) Oil (D) Ink
12. Match the following items given in Column A with that in Column B :

Column – I	Column – II
P. Cotton is collected from cotton plants by	1. Ginning
Q. Separation of cotton from seeds	2. Handpicking
R. Loose rope of cotton fibres	3. Cotton clothes
S. Animal fibres	4. Sliver
T. Suitable for wearing in kitchen	5. Silk and wool

Code :

	P	Q	R	S	T
(A)	4	1	2	5	3
(B)	3	5	4	1	1
(C)	2	1	4	5	3
(D)	4	5	3	2	1

13. Which one is spinning device?
- (A) Takli (B) Loom
 (C) Charkha (D) Both (a) and (c)

PART III : BIOLOGY

This section contains **07 Multiple Choice Questions**. Each question has four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

14. Scurvy is caused due to the deficiency of :
- (A) Vitamin A (B) Vitamin B
(C) Vitamin C (D) Vitamin D
15. Which of the following are not carnivores?
- (A) Fox (B) Elephant
(C) Crocodile (D) Eagle
16. Composition of fats are :
- (A) Carbon, Sulphur and Hydrogen (B) Carbon, Sulphur and Nitrogen
(C) Nitrogen, Hydrogen and Oxygen (D) Carbon, Hydrogen and Oxygen
17. Eggs are the rich source of :
- (A) Vitamins (B) Proteins
(C) Fats (D) Carbohydrates

18. Match the following item given in Column I with that in Column II :

Column – I	Column – II
P. Potato test	1. Fats
Q. Body building food	2. Vitamins
R. Protective food	3. Proteins
S. Butter	4. Iodine Solution

Code :

	P	Q	R	S
(A)	1	2	3	4
(B)	1	2	4	3
(C)	4	3	2	1
(D)	4	1	3	2

19. Which part of a mustard plant is edible?
- (A) Stems and Roots (B) Seeds and Flowers
(C) Leaves and Flowers (D) Seeds and Leaves
20. Which one of the following sets is not corrects?
- (A) Cow, Rabbit, Deer, Goat (B) Rabbit, Deer, Cat, Wolf
(C) Tiger, Lion, Wolf, Panther (D) Bear, Crow, Cat

PART IV : MATHEMATICS

This section contains 30 Multiple Choice Questions. Each question has four choices (A), (B), (C) and (D) out of which ONLY ONE is correct.

21. Determine the number nearest to 100000 but greater than 100000 which is exactly divisible by each of 8, 15 and 21 :
- (A) 100800 (B) 100900
(C) 100700 (D) 100600
22. I am the sixth multiple of the HCF of 20, 5 and 10. What number am I?
- (A) 30 (B) 240
(C) 20 (D) 100
23. How many prime numbers are there between 1 and 100?
- (A) 20 (B) 26
(C) 25 (D) 24
24. LCM of two numbers is 180. Then which of the following is not the HCF of the numbers?
- (A) 45 (B) 60
(C) 75 (D) 90
25. If x and y are two primes, then their LCM is :
- (A) xy (B) $x + y$
(C) $\frac{x}{y}$ (D) 1
26. There were five pieces of cloth of lengths 15m, 21m, 36m, 42m, 48m. But all of them could be measured in whole units of a measuring rod. What could be the largest length of the rod?
- (A) 3 (B) 48
(C) 5040 (D) None of these
27. The smallest 4-digit number formed by using the digits 5, 0, 3, 1 only once contains. Then correct option is :
- (A) 0 in unit's place (B) 5 in ten's place
(C) 0 in hundred's place (D) 1 in unit's place
28. Keeping the place of 6 in the number 6350947 same, the greatest number obtained by rearranging other digits is :
- (A) 6975430 (B) 6043579
(C) 6034579 (D) 6034759

29. The largest 4–digit number, using any one digit twice from digits 5, 9, 2 and 6 is :

- (A) 9652 (B) 9562
(C) 9659 (D) 9965

30. Which of the following options is written in the ascending order?

- (A) XCVII > XCCIV > DCCLXVII > MDCLXII
(B) MDCLXII < DCCLXVIII < XCCIV < XCVII
(C) MDCLXII > DCCLXVIII > XCCIV > XCVII
(D) XCVII < XCCIV < DCCLXVIII < MDCLXII

31. Height of a person is 1 meter 65 centimeter. His height in millimeters is :

- (A) 165 millimeters (B) 165000 millimeters
(C) 1650 millimeters (D) 16500 millimeters

32. How many millions make 10 crore?

- (A) 10 million (B) 1000 million
(C) 1 million (D) 100 million

33. Which of the following statement is not true?

- (A) Both addition and multiplication are associative for whole numbers
(B) Zero is the identity for multiplication of whole numbers
(C) Addition and multiplication both are commutative for whole numbers
(D) Multiplication is distributive over addition for whole numbers

34. Match the column :

Column – I	Column – II
P. Distributive property shows	1. $98 \times (25 \times 40) = (98 \times 25) \times 40$
Q. Associative property shows	2. $48 \times 100 + 48 \times 2 = 48 \times (100 + 2)$
R. Commutative property shows	3. 1
S. Multiplicative identity for whole number is	4. $25 + 63 = 63 + 25$

Code :

- | | P | Q | R | S |
|-----|---|---|---|---|
| (A) | 1 | 3 | 4 | 2 |
| (B) | 2 | 4 | 1 | 3 |
| (C) | 2 | 1 | 4 | 3 |
| (D) | 3 | 1 | 4 | 2 |

35. Match the following columns :

Column – I	Column – II
P. The difference of two consecutive whole numbers	1. Always even
Q. The product of two non-zero consecutive whole numbers	2. 0
R. Quotient when zero is divided by another non-zero whole number	3. 6
S. 2 added three times to the smallest whole number	4. 1

Code :

	P	Q	R	S
(A)	4	1	3	2
(B)	1	3	4	2
(C)	4	1	2	3
(D)	3	2	1	4

36. The successor of 1 million is :

- (A) 2000000 (B) 1000001
 (C) 100001 (D) 10001

37. Which of the following statement is not true :

- (A) Every whole number has a predecessor
 (B) All natural numbers are whole numbers
 (C) Division by zero is not defined
 (D) Zero divided by a whole number always a whole number

38. Determine the sum of the four numbers as given below :

- (a) Successor of 32
 (b) Predecessor of 49
 (c) Predecessor of the predecessor of 56
 (d) Successor of the successor of 67

Choose the correct answer :

- (A) 205 (B) 204
 (C) 203 (D) 206

39. What is the angle measure between the hands of the clock in the given figure?



- (A) 10°
- (B) 30°
- (C) 90°
- (D) 60°

40. A man is standing facing North. In which direction will he face if he makes :

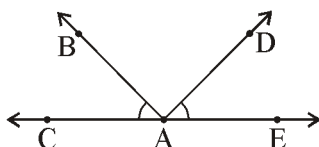
- (a) $1\frac{1}{2}$ revolution clockwise?
- (b) $\frac{3}{4}$ revolution anti-clockwise?

- (A) (a) – East, (b) – East
- (B) (a) – South, (b) – West
- (C) (a) – South, (b) – East
- (D) (a) – West, (b) – West

41. Where will the hour hand of a clock stop if it starts at 5 and makes $\frac{1}{4}$ of a revolution, clockwise?

- (A) 7
- (B) 8
- (C) 9
- (D) 10

42. The number of common points in the two angles marked in fig. is :



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

43. Geometrical figure which has no dimension is :

- (A) Point
- (B) Line segment
- (C) Plane
- (D) Line

44. Match the following columns :

Column – I	Column – II
P. Number of diagonals in a pentagon	1. 4
Q. A Polygon of six sides	2. Scalene
R. A triangle with all its sides of unequal	3. 5
S. Number of sides in a quadrilateral	4. Hexagon

Code :

	P	Q	R	S
(A)	3	4	2	1
(B)	3	4	1	2
(C)	1	2	3	4
(D)	4	3	2	1

45. The additive inverse of the sum of the integers -9853 and -3187 is _____.
- (A) 6666 (B) 4031
(C) 10340 (D) 13040
46. Find the difference between the smallest and the largest number of the following :
 $-68, 32, -32, 0, -3$
- (A) 68 (B) 100
(C) 36 (D) 65
47. Subtract the largest 4-digit even positive integer from the largest 5-digit odd negative integer?
- (A) 19999 (B) 19998
(C) -19998 (D) -19999
48. When we multiply a positive integer and a negative integer, then the resultant sign will be :
- (A) Always negative (B) Always positive
(C) Sign of bigger integer (D) Sign of smaller integer
49. How many positive integers are there between -9 and -2 ?
- (A) 6 (B) 0
(C) 8 (D) 7
50. Two integer whose sum is zero are called _____ of each other :
- (A) Additive identity (B) Additive inverse
(C) Multiplicative inverse (D) Multiplicative identity

PART V : LOGICAL REASONING & IQ

This section contains 10 Multiple Choice Questions. Each question has four choices (A), (B), (C) and (D) out of which ONLY ONE is correct.

51. Find the missing number :

4, 8, 16, 32, ?, 128

- (A) 60 (B) 64
(C) 50 (D) 42

52. Find the missing term :

C, F, I, L, ?

- (A) M (B) O
(C) N (D) I

53. Krish walks 10 km towards North. From there he walks 6 km East. Then he turns right and walks 3 km. In which direction he is facing now ?

- (A) South (B) West
(C) North (D) East

54. Raju walks 15 km towards East. From there he turns left and walks 10 km. Then he turns left and walks 15 km. Now, how far is he from starting point ?

- (A) 15 km (B) 10 km
(C) 25 km (D) 5 km

55. In a row of 30 boys, Ram is 11th from left. What is the position of Ram from the Right ?

- (A) 20th (B) 21th
(C) 19th (D) 22th

56. Find the correct group of signs to solve the equation:

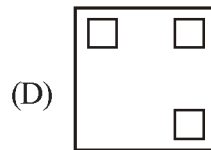
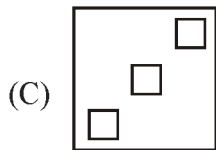
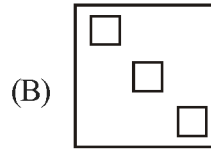
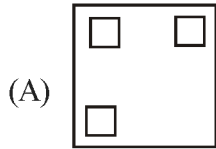
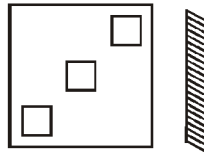
$$18 _ 2 _ 3 = 6$$

- (A) +, × (B) ÷, -
(C) ×, ÷ (D) -, +

57. If '× means ÷', '- means ×', '÷ means +' and '+ means -' then : $36 \times 6 - 4 \div 8 + 10 = ?$

- (A) 32 (B) 20
(C) 22 (D) 25

58. Find the mirror image



59. Find the water image

MONDAY

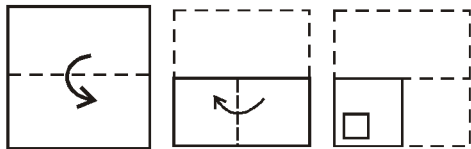
(A) MOИDЯY

(B) YADNOM

(C) WONDЯA

(D) WONDЯA

60. Choose a figure which most closely resemble the unfolded form of figure (z).



(x)

(y)

(z)

