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SAMPLE TEST PAPER

Presently in Class 9

This test paper contains **100 Multiple Choice Questions**. Each question has four choices (A), (B), (C) and (D) out of which ONLY ONE is correct. For every correct answer 4 marks are awarded and for wrong answer there is a negative marking of 1 mark. No marks awarded for unattempted questions.

REASONING ABILITY

Section A

1. Complete the series:

D3Y104, G9U91, J27Q78, M81M65

- | | |
|-------------|-------------|
| (A) P243I39 | (B) Q243I52 |
| (C) P243I52 | (D) Q162J39 |

2. Correct the following equations by interchanging two signs.

$$5 - 9 \times 45 + 15 \div 3 = 5$$

- | | |
|------------------|-------------------------|
| (A) + and - | (B) \times and \div |
| (C) + and \div | (D) \times and - |

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

1218199, 1006480, 814963, 643648, _____

- | | |
|------------|-------------|
| (A) 366478 | (B) 1442560 |
| (C) 492535 | (D) 253634 |

4. If consecutive prime numbers are assigned to English alphabets from A to Z in order, then MAT will be coded as :

- | | |
|-------------|-------------|
| (A) 31 1 67 | (B) 41 1 67 |
| (C) 37 2 71 | (D) 41 2 71 |

5. In the following question, a matrix of certain numbers is given. These numbers follow a certain trend, either row-wise or column-wise. Find this 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 |
6. In a group of dogs and crows the number of legs is more than 2 times the number of Heads by 20. Find the number of dogs?
- | | |
|--------|--------|
| (A) 10 | (B) 20 |
| (C) 25 | (D) 33 |

7. In the given sequence, some letters are missing. Which of the given options can fill the blanks in the correct order from left to right?

ab ab aaa bbaaa bbbb

8. If A, B, C, D are distinct decimal digits, then which of the following options is correct?

A 4 B C

× C

1 A 1 D C

- (A) A = 3 B = 7 C = 5 D = 9 (B) A = 2 B = 3 C = 6 D = 5
(C) A = 3 B = 8 C = 6 D = 5 (D) A = 2 B = 3 C = 5 D = 7

9. Pointing to a woman, Abhijit said, "Her grand-daughter is the only daughter of my brother." How is the woman related to Abhijit?

- (A) Sister (B) Grandmother
(C) Mother-in-law (D) Mother

10. Choose appropriate option from given alternatives such that the relationship defined by 'is preserved.

PNLJ: LIFC and VTRP:

11. Which set of symbols can replace?

$$25 * 2 * 6 = 4 * 11 * 0$$

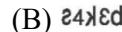
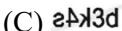
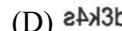
- (A) $\times, -, \times, +$ (B) $+, -, \times, +$
(C) $\times, +, \times, -$ (D) $\times, +, +, \times$

12. Which of the following alternatives will fit in place of 'M'?

255, 3610, 4915, M, 8125

13. In the following question number of triangle are:



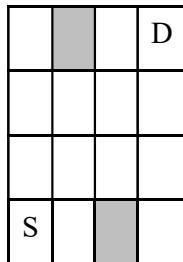
14. What is the mirror image of b3k4s ?
(A)  (B) 
(C)  (D) 
15. A is the uncle of B, who is the daughter of C and C is daughter-in-law of P. How is A related to P?
(A) Brother (B) Nephew
(C) Cousin (D) None of these
- Direction: (16 to 18)** There are eight people A, B, C, D, E, F, G and H sitting around 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.
16. 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 to the left of D
(D) H is sitting second to the right of C
17. 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
18. Which of the following is the correct order of sitting of person's 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
19. One evening Prakash and Swami are sitting in a park face to face. If Prakash's shadow is falling on Swami's left, then which direction is Swami facing?
(A) South (B) East
(C) West (D) North
20. Three different positions of the same dice are shown. Find the number on the face opposite the face showing '1'.



- (A) 3 (B) 2 (C) 4 (D) 5

Section B

21. From each box you can move only to the immediate right box or the immediate top box. You cannot move into or through a shaded box. How many ways are there to move from the box marked S to the box marked D?



- (A) 11 (B) 10 (C) 12 (D) 14

22. If $AR = 36$, $CM = 78$, $GP = 224$, then $ES = \underline{\hspace{2cm}}$

(A) 364 (B) 150 (C) 190 (D) 320

23. If $\frac{56}{31} = 10$ and $\frac{48}{18} = 4$ then $\frac{64}{16} = \underline{\hspace{2cm}}$

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

24. Mother was asked how many gifts she had in the bag. She replied that there were all dolls but six, all cars but six and all books but six. How many gifts had she in all?

(A) 9 (B) 18 (C) 27 (D) 36

25. There is a cuboid whose dimensions are $4 \times 3 \times 3$ cm. The opposite faces of dimensions 4×3 are coloured yellow. The opposite faces of other dimensions 4×3 are coloured red. The opposite faces of dimensions 3×3 are coloured green. Now, the cuboid is cut into small cubes of side 1 cm. How many small cubes will have only two faces coloured?

(A) 12 (B) 16 (C) 20 (D) 24

Section A

28. If G is universal gravitational constant and g is acceleration due to gravity, then the unit of the quantity $\frac{G}{g}$ is

(A) $kg - m^2$ (B) kg/m
 (C) kg/m^2 (D) m^2/kg

29. A rubber ball dropped from a certain height is an example of

(A) Non-uniform acceleration (B) Uniform retardation
 (C) Uniform speed (D) Non-uniform speed

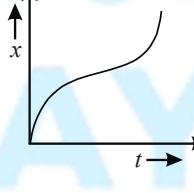
30. The mass of the Earth is $6 \times 10^{24} kg$ and that of the Moon is $7.4 \times 10^{22} kg$. If the distance between the Earth and the Moon is $3.84 \times 10^5 km$, calculate the force exerted by the Earth on the Moon. $G = 6.7 \times 10^{-11} Nm^2 kg^{-2}$.

(A) $7.01 \times 10^{22} N$ (B) $5.01 \times 10^{18} N$
 (C) $2.01 \times 10^{20} N$ (D) $9.01 \times 10^{19} N$

31. The acceleration of a moving object is equal to the

(A) slope of a displacement -time graph
 (B) slope of a velocity -time graph
 (C) area below a displacement-time graph
 (D) area below a velocity -time graph

32. In the graph given below :



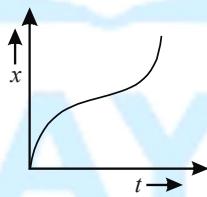
(A) The body first accelerates & then decelerates
 (B) The body first decelerates & then accelerates
 (C) Body has negative velocity
 (D) None of these

33. A constant force acts on an object of mass $5 kg$ for a duration of $2 s$. It increases the object's velocity from $3 ms^{-1}$ to $7 ms^{-1}$. Find the magnitude of the applied force

(A) $20 N$ (B) $10 N$ (C) $30 N$ (D) $40 N$

34. Consider the motion of the tip of the minute hand of a clock. In one hour

(A) The displacement is zero (B) The distance covered is zero
 (C) The average speed is zero (D) None of these



SECTION B

36. A body is thrown vertically upward with velocity (u). The greatest height h to which it will rise is

(A) u/g (B) $\frac{u^2}{2g}$ (C) $\frac{u^2}{g}$ (D) $\frac{u}{2g}$

37. A bullet of mass 20 g is horizontally fired with a velocity 150 ms^{-1} from a pistol of mass 2 kg . What is the magnitude of recoil velocity of the pistol?

(A) 4.5 ms^{-1} (B) 2 ms^{-1} (C) 1.5 ms^{-1} (D) 4.5 ms^{-1}

38. The gravitational force between two objects is 49 N . How much must the distance between these objects be decreased so that the force between them becomes double (Initial distance between objects is ‘ r ’)?

(A) $\frac{r}{2}$ (B) $2r$ (C) $\frac{r}{\sqrt{5}}$ (D) $\frac{r}{\sqrt{2}}$

39. A particle has an initial velocity of 9 m/s due east and a constant acceleration of 2m/s^2 due west. the distance covered by the particle in the fifth second of its motion is :

40. A ball of mass m strikes the bat with a speed v & goes back in the opposite direction with speed v . If ball was in contact for t time then force applied by the bat is :

(A) $\frac{mv}{t}$ (B) $\frac{3mv}{t}$ (C) $\frac{2mv}{t}$ (D) $m v t$

CHEMISTRY

Section A

41. Which of the following is incorrect for solid state?

 - (A) They have fixed shape
 - (B) They cannot be compressed
 - (C) Solid particle move at very fast speed and have high kinetic energy
 - (D) The force of attraction between solid particles is maximum.

42. Brass contains -

 - (A) Gold and copper
 - (B) Copper and zinc
 - (C) Zinc and silver
 - (D) Copper and silver

Section B

BIOLOGY

Section A

59. Complete the following paragraph by selecting correct words from the alternatives given below it -
Nervous tissue consists of This consists of which contains the and a long structure called the
(A) Neurons, axon, cell body, nucleus (B) Cell body, neurons, nucleus, neurons
(C) Neurons, cell body, nucleus, axon (D) Axon, cell body, neurons, nucleus
60. Select the incorrect statement:-
(A) In animal cells smaller vacuoles are present
(B) Plastids present in plant cells
(C) Chloroplasts are green coloured mitochondria
(D) In chloroplast photosynthetic units are Quantasomes
61. Tendon is made up of –
(A) Yellow fibres (B) White fibres
(C) Adipose tissue (D) Areolar tissue
62. Robert Hooke observed cell in the _____, which were actually _____ cells:-
(A) Cork, living (B) Cork, dead
(C) Onion peel, living (D) Onion peel, dead
63. Lateral meristem is responsible for growth in :
(A) Length (B) Thickness
(C) Parenchyma (D) Cortex
64. The stem of grasses and related plants elongate by the activity of :
(A) Secondary meristem (B) Lateral meristem
(C) Intercalary meristem (D) All of these
65. The apical meristem of the root is present :
(A) Only in radicals (B) Only in tap roots
(C) Only in adventitious roots (D) In all the roots

Section B

66. Choose the best definition of ‘diffusion’
(A) Passive movement from an area of greater concentration to one of lesser concentration
(B) Active movement from an area of greater concentration to one of lesser concentration
(C) Passive movement from an area of lesser concentration to one of greater concentration
(D) Active movement from an area of lesser concentration to one of greater concentration

67. All the following terms (given in column I) related to specific characteristic given in column II. Match each term with its specific character and select the correct answer by using the codes given below.

Column I	Column II				
(a) Collenchyma	(i)	Thick walled tissues having deposition of lignin			
(b) Complex tissue	(ii)	Water conducting tissues			
(c) Parenchyma	(iii)	Thick walled sclerenchymatous cells, providing mechanical support			
(d) Sclerenchyma	(iv)	Thick walled cells having thickenings of cellulose and pectin			
(e) Phloem fibres	(v)	Storage of food			
a	b	c	d	e	
(A) (v)	(ii)	(iv)	(i)	(iii)	
(B) (i)	(ii)	(v)	(iv)	(iii)	
(C) (ii)	(i)	(v)	(iv)	(iii)	
(D) (iv)	(ii)	(v)	(i)	(iii)	

68. Match list – I (type of cell) with list – II (function) and select answer using the codes given below the lists:

List – I (Type of cell)	List – II (Function)				
a. Mitochondria	1.	Digestion			
b. Chloroplast	2.	Respiration			
c. Ribosome	3.	Photosynthesis			
d. Lysosome	4.	Protein synthesis			
	5.	Excretion			

a	b	c	d
(A) 3	1	2	4
(B) 2	1	4	3
(C) 3	5	1	2
(D) 2	3	4	1

69. Which of the following consist of smooth muscle tissue ?

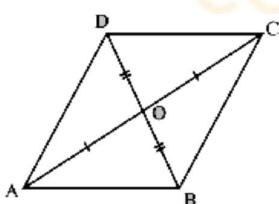
(i) Digestive tract	(ii) Arteries	(iii) Heart	(iv) Leg muscle
(A) Only (i)		(B) Only (ii)	
(C) (i) and (ii)		(D) (i) and (iv)	

70. The shape of stomata's guard cell is :

(A) Irregular	(B) Bean shaped	(C) Fibrous	(D) Elongated
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MATHEMATICS

Section A



77.

In the above fig, if the diagonals of a quadrilateral bisect each other, then it is a

78. Rationalise the denominator of $\frac{1}{(3+\sqrt{2})}$

(A) $3-\sqrt{2}$

(B) $\frac{3-\sqrt{2}}{5}$

(C) $\frac{3-\sqrt{2}}{7}$

(D) $\frac{3+\sqrt{2}}{7}$

79. If $(x-k)$ is a factor of $(x^3 - kx^2 + 2x + k - 1)$, find the value of k .

(A) -3

(B) $\frac{-1}{3}$

(C) 3

(D) $\frac{1}{3}$

80. Point $(0, -\sqrt{2})$ lies

(A) In the II Quadrant

(B) In the IV Quadrant

(C) On the x-axis

(D) On the y-axis.

81. The equation of the x-axis is

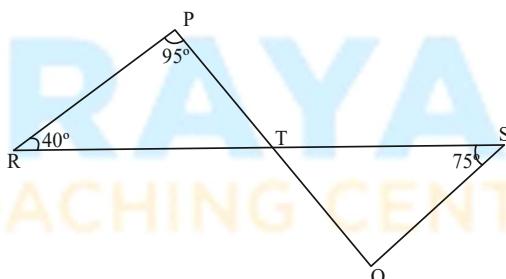
(A) $x=0$

(B) $y=0$

(C) $x = y$

(D) $x+y=0$

82. In the adjoining figure, If PQ and RS intersect at T and $\angle PRT = 40^\circ$, $\angle RPT = 95^\circ$ and $\angle TSQ = 75^\circ$, find $\angle SQT$.



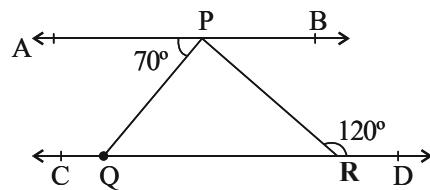
(A) 60°

(B) 45°

(C) 75°

(D) 35°

83. In the given figure $AB \parallel CD$. If $\angle APQ = 70^\circ$ and $\angle PRD = 120^\circ$ then $\angle QPR = ?$



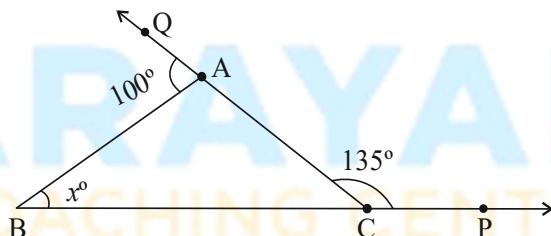
(A) 50°

(B) 60°

(C) 40°

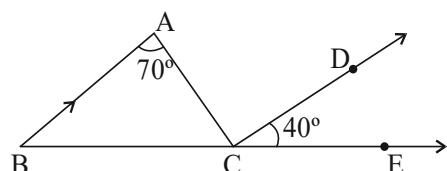
(D) 35°

84. In a rhombus ABCD, $\angle ABC = 42^\circ$, then $\angle CAD = :$
- (A) 48° (B) 138°
 (C) 69° (D) Can't be determined
85. If a and b are rational numbers and $\frac{4+3\sqrt{5}}{4-3\sqrt{5}} = a+b\sqrt{5}$, Find the value of $(a+b)$
- (A) $-\frac{85}{29}$ (B) $\frac{61}{29}$
 (C) $\frac{85}{29}$ (D) $-\frac{61}{29}$
86. If both $(x-2)$ and $\left(x - \frac{1}{2}\right)$ are factors of $px^2 + 5x + r$, then
- (A) $p = 2r$ (B) $2p = r$
 (C) $p = r$ (D) $p = -r$
87. If a point $P(a, b)$ lies in I quadrant and its image about $y=0$ is Q. The image of Q about y-axis is R, then co-ordinates of R will be
- (A) $(-a, -b)$ (B) (b, a)
 (C) $(-b, a)$ (D) $(b, -a)$
88. The graph of the linear equation $2x + 5y = 10$ meets the x-axis at the point.
- (A) $(0, 2)$ (B) $(2, 0)$ (C) $(5, 0)$ (D) $(0, 5)$
89. Calculate the value of x in the adjoining figure



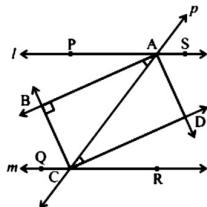
- (A) 35° (B) 40° (C) 60° (D) 55°

90. In the adjoining figure, $AB \parallel DC$. Then find the measure of $\angle ABC$



- (A) 30° (B) 40°
 (C) 50° (D) 60°

91. In the figure two parallel lines l and m that are intersected by a transversal p are shown. The quadrilateral formed by the bisectors of interior angles is a

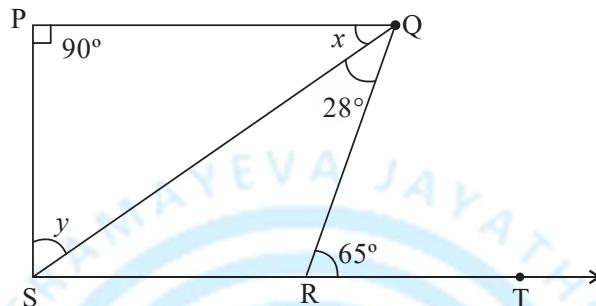


Section B

99. If the point (3,4) lies on the graph of $3y=ax+7$ then the value of a is

- | | |
|-------------------|-------------------|
| (A) $\frac{2}{5}$ | (B) $\frac{5}{3}$ |
| (C) $\frac{3}{5}$ | (D) $\frac{2}{7}$ |

100. In the adjoining figure, $PQ \parallel SR$, $\angle SQR = 28^\circ$ and $\angle QRT = 65^\circ$. Find the value of $(y-x)$



- | | |
|----------------|----------------|
| (A) 14° | (B) 15° |
| (C) 16° | (D) 17° |

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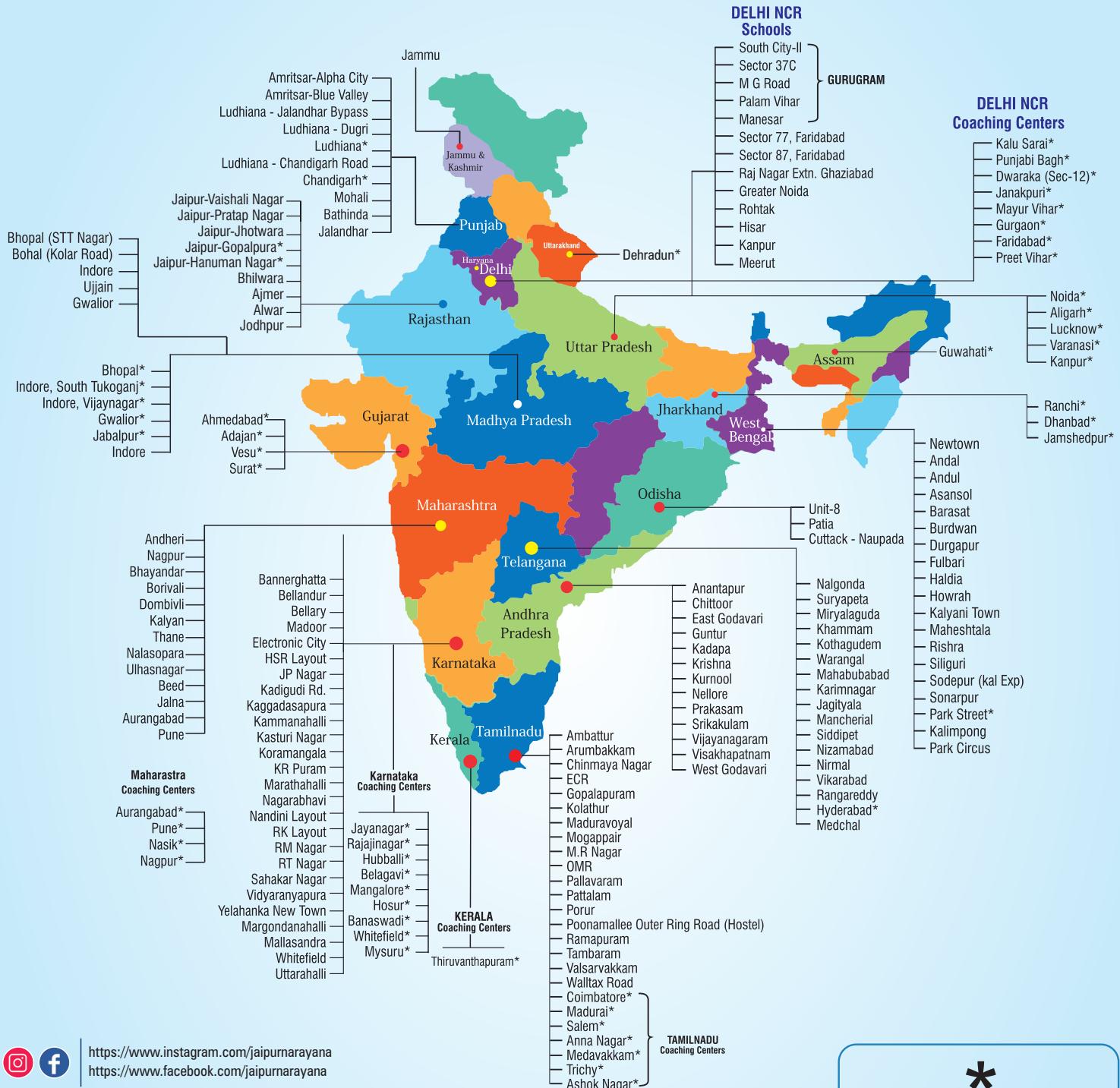
ANSWER KEY										
Que.	1	2	3	4	5	6	7	8	9	10
Ans.	C	D	C	D	C	A	B	D	D	A
Que.	11	12	13	14	15	16	17	18	19	20
Ans.	A	C	D	A	D	B	C	B	A	A
Que.	21	22	23	24	25	26	27	28	29	30
Ans.	C	C	B	A	B	D	A	D	D	C
Que.	31	32	33	34	35	36	37	38	39	40
Ans.	B	B	B	A	A	B	C	D	B	C
Que.	41	42	43	44	45	46	47	48	49	50
Ans.	C	B	B	C	A	B	B	D	B	C
Que.	51	52	53	54	55	56	57	58	59	60
Ans.	B	B	D	B	B	D	A	A	C	C
Que.	61	62	63	64	65	66	67	68	69	70
Ans.	B	B	B	C	D	A	D	D	C	B
Que.	71	72	73	74	75	76	77	78	79	80
Ans.	A	D	D	B	B	B	C	C	D	D
Que.	81	82	83	84	85	86	87	88	89	90
Ans.	B	A	A	C	A	C	A	C	D	B
Que.	91	92	93	94	95	96	97	98	99	100
Ans.	B	A	C	C	C	D	C	D	B	C

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