

## Sample Paper

VII to VIII Moving

Time: 2 Hours | Max. Marks: 100

# घर के पास सफलता और संस्कार

- Answers are to be given in the separate **OMR** sheet.
- Don't break the seal unless you're instructed to do so. If the seal is broken before the scheduled time, penalty will be minus 10 marks.
- There are **100 questions** in this test paper. All questions are compulsory. Questions numbered **1 to 20** belong to **Science**, **21 to 35** pertain to **Mathematics**, **36 to 50** belong to **Social Science** and **50-100** are on **Mental Ability**.
- Please ensure that the question paper you have received contains all the questions in each section and pages. If you find any mistake like missing question or pages then contact the invigilator, immediately.
- Please follow the instructions given on the OMR sheet for marking the answers.
- Write your nine-digit registration number, allotted to you in the admit card, clearly on the test-booklet.
- Rough work can be done anywhere in the booklet but not on the OMR sheet /loose paper.
- Each **correct answer** will be awarded **one mark**.
- There is **no negative marking**.
- Please return, only the OMR sheet to the invigilator, after the test.
- Use black/blue ball point pen only provided in the examination hall.
- Write your registration number very clearly (only one digit in one block) on this booklet.
- Answer each question, by darkening the correct alternative among the four choices on the **OMR Sheet** as shown below.

Correct way:

Q.No.	Alternatives			
1	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Q.No.	Alternatives			
1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Wrong way:

- Since the time allotted for this question paper is very limited and all questions carry equal marks, you should make the best use of it by not spending too much time on one question. Time permitting, you can come back to the question, which you have left in the first instance and try them again.
- Use of whitener/white fluid, is strictly prohibited, on the OMR sheet, for changing the answer.

**Note: Please turn over the page and start answering only after you are asked to do so.**

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✓ **5** in top 500  
in JEE(Adv) '23

✓ **14** in top 5500  
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**NEET(UG) '23:**  
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✓ **7** Above 600  
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**Scholastic Aptitude Test (SAT)**

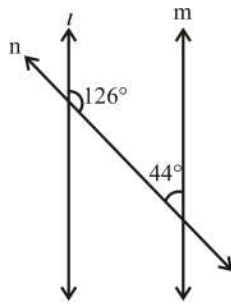
01. A glowing bulb becomes warm due to the
- (1) heating effect of current
  - (2) magnetic effect of current
  - (3) chemical effect of current
  - (4) physical effect of current
02. The path of the light is
- (1) always a straight line
  - (2) a curved line
  - (3) a zig-zag line
  - (4) depends on the medium
03. Arrangement of cells in a device is
- (1) side by side
  - (2) one after the other
  - (3) (1) or (2)
  - (4) none of these
04. In a bulb there is a thin wire called
- (1) filament
  - (2) coil
  - (3) element
  - (4) fuse wire
05. A simple pendulum takes 42 sec. to complete 20 oscillations. What is its time period?
- (1) 2.1 s
  - (2) 4.2 s
  - (3) 21 s
  - (4) 8.40 s
06. Image formed by a plane mirror is
- (1) virtual and erect
  - (2) real and erect
  - (3) virtual and inverted
  - (4) real and inverted
07. You are provided with a convex mirror, a concave mirror, a convex lens and a concave lens. You can get an inverted image from
- (1) both concave lens and convex lens
  - (2) both concave mirror and convex mirror
  - (3) both concave mirror and convex lens
  - (4) both convex mirror and concave lens
08. Silk is obtained from
- (1) Llama
  - (2) yak
  - (3) sheep
  - (4) cocoon
09. Fibre is obtained from
- (1) animals
  - (2) plants
  - (3) both (1) and (2)
  - (4) none of these
10. Out of these gases which one is used in fire extinguishers
- (1)  $\text{CO}_2$
  - (2)  $\text{SO}_2$
  - (3)  $\text{NO}_2$
  - (4)  $\text{H}_2\text{S}$
11. Which one of the following is a wool-yielding animal?
- (1) Sheep
  - (2) Angora goat
  - (3) Camel
  - (4) All of these
12. Which among the following is a physical change?
- (1) Cutting a log of wood in small pieces
  - (2) Burning of wood
  - (3) Ripening of fruit
  - (4) Cooking of food
13. Products of a neutralisation reaction are always:
- (1) an acid and a base
  - (2) an acid and a salt
  - (3) a salt and water
  - (4) a salt and a base

Space for rough work

14. The correct way of making a solution of acid in water is to
- (1) add water to acid
  - (2) add acid to water
  - (3) mix acid and water simultaneously
  - (4) add water to acid in a shallow container
15. The vessels that transport water and minerals are called
- (1) Xylem
  - (2) Phloem
  - (3) Stomata
  - (4) Vacuoles
16. Which of the following are green lungs?
- (1) Green coloured lungs
  - (2) Lungs with green algae
  - (3) Lungs of green animals
  - (4) Forests
17. Autotrophic nutrition is seen in
- (1) Plants
  - (2) Human beings
  - (3) Parasites
  - (4) Fungi
18. What are the main functions of blood?
- (1) Transport
  - (2) Protection
  - (3) Regulation
  - (4) All of the above
19. A manure should supply which of the following nutrients to plants?
- (1) Nitrogen
  - (2) Phosphorus
  - (3) Potassium
  - (4) All of the above
20. Number of milk teeth found in humans is
- (1) 32
  - (2) 20
  - (3) 52
  - (4) 12
21. The difference between a temperature of  $1^{\circ}\text{C}$  above zero and a temperature of  $3^{\circ}\text{C}$  below zero is
- (1)  $10^{\circ}\text{C}$
  - (2)  $7^{\circ}\text{C}$
  - (3)  $4^{\circ}\text{C}$
  - (4)  $3^{\circ}\text{C}$
22. If a car covers a distance of 95.5 km in 2.5 hours then the average distance covered by it in 1 hour will be \_\_\_\_\_ .
- (1) 38 km
  - (2) 38.2 km
  - (3) 38.3 km
  - (4) 39 km
23. The number of times a particular observation occurs is called its \_\_\_\_\_ .
- (1) frequency
  - (2) data
  - (3) statistics
  - (4) average
24. If the sum of three consecutive even numbers is 78 then the number will be \_\_\_\_\_ .
- (1) 10, 12 and 14
  - (2) 16, 18 and 20
  - (3) 22, 24 and 26
  - (4) 24, 26 and 28
25. The length of a rectangular field is twice its breadth. If the perimeter of the field is 120 m then the length and breadth will be \_\_\_\_\_ .
- (1) 20 and 40
  - (2) 30 and 20
  - (3) 40 and 20
  - (4) 25 and 25

Space for rough work

26. In the given figure, is line 'l' parallel's to 'm'?

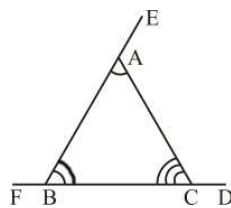


- (1) Yes
- (2) No
- (3) Might be
- (4) None of them

27. Find the angle which is equal to its one-third complement.

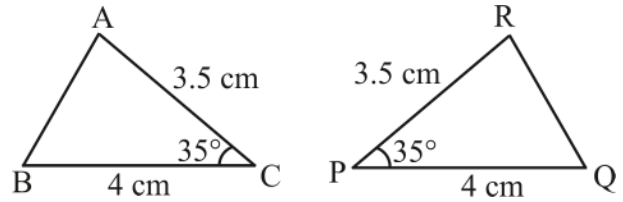
- (1)  $23.5^\circ$
- (2)  $22.5^\circ$
- (3)  $65.5^\circ$
- (4) None of them

28. In the figure given below, the exterior angle CAE is equal to



- (1)  $\angle A + \angle C$
- (2)  $\angle B + \angle C$
- (3)  $\angle A + \angle B$
- (4)  $\angle C + \angle F$

29. If the given triangles are congruent to each other, write them in symbolic form.



- (1)  $\triangle ABC \cong \triangle RQP$
- (2)  $\triangle ABC \cong \triangle QRP$
- (3)  $\triangle CBA \cong \triangle RQP$
- (4)  $\triangle ACB \cong \triangle RQP$

30. Rational number  $-\frac{5}{9}$  is less than the rational number \_\_\_\_\_ .

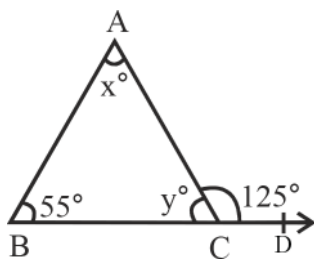
- (1)  $-\frac{3}{5}$
- (2)  $-\frac{3}{8}$
- (3)  $\frac{3}{2}$
- (4)  $\frac{7}{5}$

31. One person divides his income in three parts. If he gives two parts to Ram and one part to Shyam, then the percentage of money he gives to Ram and Shyam respectively will be \_\_\_\_\_ .

- (1)  $66\frac{1}{3}\%$  and  $33\frac{1}{3}\%$
- (2)  $33\frac{1}{3}\%$  and  $66\frac{1}{3}\%$
- (3) 60 % and 40 %
- (4) 65 % and 35 %

Space for rough work

32. In the given figure, find the value of  $x$  and  $y$ .



- (1)  $x = 55^\circ$  and  $y = 55^\circ$   
 (2)  $x = 70^\circ$  and  $y = 55^\circ$   
 (3)  $x = 70^\circ$  and  $y = 75^\circ$   
 (4)  $x = 49^\circ$  and  $y = 50^\circ$
33. A square lawn is surrounded by a path 3 m wide around it. If the area of the path is  $180 \text{ m}^2$ , find the area of the lawn?
- (1)  $290 \text{ m}^2$                       (2)  $12 \text{ m}^2$   
 (3)  $144 \text{ m}^2$                       (4)  $195 \text{ m}^2$
34. Simplify:  $\frac{5^4 \times 3^4 \times 4}{9 \times (5)^3 \times 2}$
- (1) 45                                      (2) 90  
 (3) 135                                      (4) 180
35. The sum of the algebraic expressions  $x - 2y - 3z$  and  $3y - 2x - 5z$  is
- (1)  $3x + 3y - 8z$                       (2)  $-x + y - 8z$   
 (3)  $-x + y - 2z$                       (4)  $x + y - 8z$
36. Trade in which goods are trade without money
- (1) Import trade  
 (2) Export trade  
 (3) Barter trade  
 (4) Commercial trade
37. The capital city of Nagaland is \_\_\_\_\_
- (1) Itanagar                                      (2) Dispur  
 (3) Gangtok                                      (4) Kohima

38. On \_\_\_ every year World Environment Day is celebrated.
- (1) 5 June                                      (2) 5 July  
 (3) 25 June                                      (4) 25 July
39. Abiotic component of environment is
- (1) Bird  
 (2) Land  
 (3) Human  
 (4) None of the above
40. \_\_\_ minerals are found in the continental masses
- (1) Silica and alumina  
 (2) Silica and magnesium  
 (3) Nickel and iron  
 (4) Silica and iron
41. The highest waterfall is
- (1) Zambia Falls  
 (2) Angel Falls  
 (3) Niagara Falls  
 (4) Victoria Falls
42. It is a vent in the earth's crust through which molten material erupts suddenly
- (1) Crater  
 (2) Volcano  
 (3) Earthquake  
 (4) Crust
43. Which of the following is NOT exogenic force
- (1) Volcano  
 (2) Wind  
 (3) Sea Waves  
 (4) Glaciers

Space for rough work

44. \_\_\_\_\_ Pressure is associated with cloudy skies and wet weather and \_\_\_\_\_ pressure is associated with clear and sunny skies.
- (1) Low, Normal
  - (2) Normal, High
  - (3) Low, High
  - (4) High, Low
45. Jet planes flying in the sky leave a \_\_\_\_\_ trail behind them
- (1) Black
  - (2) Blue
  - (3) White
  - (4) Grey
46. Prithviraj Raso was written by
- (1) Chandbardai
  - (2) Al-beruni
  - (3) Babur
  - (4) Akbar
47. Akbar Nama was written by
- (1) Abul Fazal
  - (2) Al-baruni
  - (3) Firoz Shah
  - (4) Firdausi
48. The Brihadeswara temple is in
- (1) Tamil Nadu
  - (2) Odisha
  - (3) Haryana
  - (4) Kerala
49. Which of the following is a salient feature of the Indian Constitution?
- (1) Providing voting rights to all citizens
  - (2) Being idealistic and flexible
  - (3) Being federal in form and unitary in spirit
  - (4) All of the above
50. Who drafted the Indian Constitution?
- (1) Pt. J.L. Nehru
  - (2) Mahatma Gandhi
  - (3) Lal Bahadur Shastri
  - (4) Dr. B.R. Ambedkar

Space for rough work

**Mental Ability Test (MAT)**

**Directions (Ques. 51-55):** In the following question in certain code language if '+' means 'x', '-' means '+', 'x' means '÷', and '÷' means '-', then answer the following questions.

51.  $16 + 2 - 3 \div 4 = ?$   
 (1) 31 (2) 26  
 (3) 15 (4) None of these
52.  $9 + 3 \div 18 \times 3 + 4 = ?$   
 (1) 30 (2) 3 (3) 13 (4) 0
53.  $28 \div 36 - 49 \times 7 + 2 = ?$   
 (1) 12 (2) 10 (3) 8 (4) 6
54.  $171 \times 57 \div 279 \times 93$   
 (1) 250 (2) 253  
 (3) 252 (4) 0
55.  $8 \div 6 - 9 \times 12 + 4$   
 (1) 5 (2) 7 (3) 9 (4) 13

**Direction (56-58):** In these questions select the related number from the given options.

56.  $9 : 80 :: 100 : ?$   
 (1) 901 (2) 1009  
 (3) 9889 (4) 9999
57.  $2 : 3 :: 23 : ?$   
 (1) 25 (2) 28 (3) 46 (4) 29
58.  $2 : 12 :: 8 : ?$   
 (1) 18 (2) 128 (3) 396 (4) 576

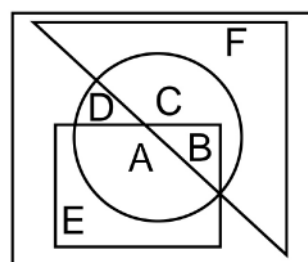
**Directions (59-61):** In each of the following questions four words have been given each of which three are alike in some manner and the fourth one is different. Choose out the odd one.

59. (1) Apple (2) Mango  
 (3) Watermelon (4) Guava
60. (1) Microscope (2) Telescope  
 (3) Periscope (4) Stethoscope
61. (1) Commander (2) Commodore  
 (3) Brigadier (4) Admiral

62. A man is facing north-west. He turns  $90^\circ$  in the clockwise direction and then  $135^\circ$  in the anticlockwise direction. Which direction is he facing now?

- (1) East (2) West  
 (3) North (4) South

63. Which one of the following statements is correct with regard to the given figure?



- (1) A and B are in all the three shapes  
 (2) E, A, B, C are in all the three shapes  
 (3) F, C, D, B, A are in all the three shapes  
 (4) Only B is in all the three shapes
64. Arrange the following given names in the appropriate order based on the telephone directory (telephone directory) and select the correct order.
- (a) Avdesh (b) Avadhesh  
 (c) Awadesh (d) Awadhesh
- (1) b,c,d,a (2) b,a,c,d  
 (3) a,b,c,d (4) b,a,d,c

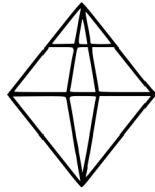
**Directions (65-66):** are based on the following alphabet series.

A B C D E F G H I J K L M N O P Q R S T U V W  
 X Y Z

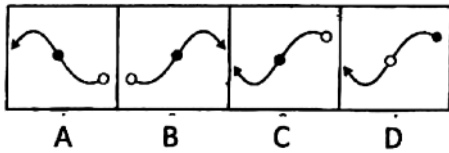
65. Which letter is exactly midway between H and S in the given alphabet series?  
 (1) L (2) M  
 (3) N (4) No such letter

Space for rough work

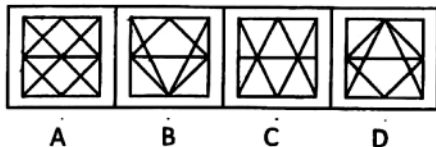
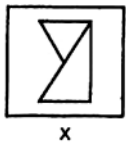
66. Which letter is midway between the 3rd letter from the left and 12th letter from the right?  
 (1) L (2) M (3) I (4) O
67. How many triangles does the given figure have?



- (1) 12 (2) 16 (3) 18 (4) 20
68. Choose the correct mirror-image of the figure (x) from amongst the four alternatives A,B,C and D.



- (1) A (2) B  
 (3) C (4) D
69. You are given a figure (x) followed by four figures A, B, C and D such that (x) is embedded in one of them. Trace out the correct alternatives.



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

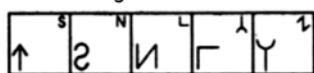
70. The reflex angle between the hands of a clock at 10 : 25 is
- (1)  $180^\circ$  (2)  $192\frac{1}{2}^\circ$   
 (3)  $195^\circ$  (4)  $197\frac{1}{2}^\circ$
71. Choose the pair that best represents a similar relationship to the expressed in the original pair or words-  
**MONK : DEVOTION**
- (1) Maniac : Pacifism  
 (2) Explorer : Contentment  
 (3) Visionary : Complacency  
 (4) Rover : Wanderlust
72. What was the day of the week on 28th March, 2006?
- (1) Thursday (2) Friday  
 (3) Tuesday (4) Sunday
73. Which of the following is not a leap year?
- (1) 700 (2) 1600 (3) 1200 (4) 2400
74. In every 60 minutes, the minute hand gains ----- minutes on the hour hand
- (1) 53 (2) 54 (3) 55 (4) 56
75. In a queue, Manoj is ninth from the back. Manish's place is eighth from the front. Mayank is standing between the two. What could be the minimum number of boys standing in the queue?
- (1) 8 (2) 10  
 (3) 12 (4) 14
76. In a row of girls facing North, Reena is 10th to the left of Pallavi, who is 21st from the right end. If Malini, who is 17th from the left end, is fourth to the right of Reena, how many girls are there in the row?
- (1) 37 (2) 43  
 (3) 44 (4) Data inadequate

Space for rough work



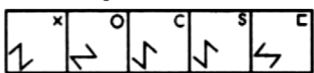
77. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures:



(A) (B) (C) (D) (E)

Answer Figures:



(1) (2) (3) (4) (5)

- (1) 2
- (2) 5
- (3) 3
- (4) 1

78. Choose the figure which is different from the rest.



(1) (2) (3) (4) (5)

- (1) 1
- (2) 2
- (3) 3
- (4) 4

79. Identify the figure that completes the pattern.



(X)



(1) (2) (3) (4)

- (1) 1
- (2) 2
- (3) 3
- (4) 4

**Direction (80-84):** Study the following information carefully and answer the questions that follow:

P, Q, R, S, T, V and W are the seven members of a family. There are three female members. Each of them has a different profession - Lawyer, Chartered Accountant (CA), Engineer, Teacher, Doctor, Architect and Pharmacist. No lady is either Pharmacist or Chartered Accountant. Each of them has a different monthly income. The Chartered Accountant earns the most. S, the Engineer earns less than V, the Doctor.

R, the Teacher, earns more than P and less than S. W's wife earns the least. T is an unmarried lady Lawyer and she earns less than P and more than only Q. The Pharmacist's income is not the lowest.

80. Who earns the least?

- (1) P
- (2) Q
- (3) P or Q
- (4) R

81. What is P's profession?

- (1) Pharmacist
- (2) Lawyer
- (3) Teacher
- (4) Cannot be determined

82. How many members earn less than the Doctor?

- (1) 2
- (2) 3
- (3) 4
- (4) 5

83. Which of the following represents the three female members of the family?

- (1) PTQ
- (2) TRQ
- (3) VTQ
- (4) Cannot be determined

84. How many members earn more than the Pharmacist?

- (1) 2
- (2) 3
- (3) 4
- (4) 5

Space for rough work

**Direction (85-89):** In each of the following questions, one term in the number series is wrong. Find out the wrong term.

85. 1, 2, 4, 9, 16, 32, 64, 128  
 (1) 4 (2) 32  
 (3) 9 (4) 128
86. 27, 125, 343, 730, 1331  
 (1) 27 (2) 343  
 (3) 1331 (4) 730
87. 13, 11, 9, 8, 5, 3  
 (1) 10 (2) 8  
 (3) 5 (4) 3
88. 56, 72, 90, 110, 132, 150  
 (1) 150 (2) 110  
 (3) 90 (4) 72
89. 3, 4, 10, 32, 136, 685, 4116  
 (1) 4116 (2) 685  
 (3) 32 (4) 10

**Directions (90 to 94):** In each question there is a number series with one term missing shown by question mark (?). This term in one of the alternatives among the four numbers given under it. That number is -

90. 5, 10, 13, 26, 29, 58, 61, (?)  
 (1) 64 (2) 122  
 (3) 125 (4) 128
91. 13, 17, 19, 23, 29, 31, (?), 41  
 (1) 33 (2) 37  
 (3) 39 (4) 35
92. 3, 7, 6, 5, 9, 3, 12, 1, (?), -1  
 (1) 3 (2) 4  
 (3) 13 (4) 15
93. 0, 2, 6, 12, (?), 30  
 (1) 25 (2) 27  
 (3) 16 (4) 20

94. 16, 33, 65, 131, (?), 523  
 (1) 261 (2) 521  
 (3) 613 (4) 721

**Directions (95 to 99):** These questions consist of a number series which contains a wrong term. This term is given as one of the four alternatives among the four numbers given below. The wrong term is

95. 10, 14, 16, 18, 21, 24, 26  
 (1) 18 (2) 21  
 (3) 24 (4) 26
96. 6, 9, 15, 21, 24, 28, 36  
 (1) 21 (2) 24  
 (3) 28 (4) 30
97. 0, 9, 26, 65, 125, 217, 342  
 (1) 9 (2) 125  
 (3) 65 (4) 342
98. 5, 10, 17, 28, 42, 58, 77  
 (1) 42 (2) 28  
 (3) 58 (4) 17
99. 1, 6, 40, 120, 360, 720, 720  
 (1) 120 (2) 1  
 (3) 6 (4) 40

**Directions:** Following question consists of four groups. One set is different from the other three in some way. Find out the different set -

100. (1) NMRQ (2) FEIH  
 (3) SRWV (4) HGLK

Space for rough work



**सिर्फ तैयारी के लिए ज़िन्दगी नहीं  
ज़िन्दगी के लिए तैयारी**

घर के पास  
सफलता और संस्कार

Batch: VII to VIII Moving

ANSWER KEY

01.	(1)	02.	(1)	03.	(3)	04.	(1)	05.	(1)	06.	(1)	07.	(3)
08.	(4)	09.	(3)	10.	(1)	11.	(4)	12.	(1)	13.	(3)	14.	(2)
15.	(1)	16.	(4)	17.	(1)	18.	(4)	19.	(4)	20.	(2)	21.	(1)
22.	(1)	23.	(1)	24.	(4)	25.	(3)	26.	(2)	27.	(2)	28.	(2)
29.	(1)	30.	(2)	31.	(1)	32.	(2)	33.	(3)	34.	(2)	35.	(2)
36.	(3)	37.	(4)	38.	(1)	39.	(2)	40.	(1)	41.	(2)	42.	(2)
43.	(1)	44.	(3)	45.	(3)	46.	(1)	47.	(1)	48.	(1)	49.	(4)
50.	(4)	51.	(1)	52.	(2)	53.	(4)	54.	(4)	55.	(1)	56.	(4)
57.	(4)	58.	(4)	59.	(3)	60.	(4)	61.	(1)	62.	(2)	63.	(4)
64.	(2)	65.	(4)	66.	(3)	67.	(3)	68.	(3)	69.	(3)	70.	(4)
71.	(4)	72.	(3)	73.	(1)	74.	(3)	75.	(2)	76.	(2)	77.	(3)
78.	(1)	79.	(1)	80.	(2)	81.	(1)	82.	(4)	83.	(4)	84.	(3)
85.	(3)	86.	(4)	87.	(2)	88.	(1)	89.	(3)	90.	(2)	91.	(2)
92.	(4)	93.	(4)	94.	(1)	95.	(2)	96.	(3)	97.	(2)	98.	(1)
99.	(4)	100.	(2)										

For any correction or query related to answer key, contact +91 81262 61333