

## Sample Paper

VIII to IX 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"/>

Wrong way:

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

- 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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## Scholastic Aptitude Test (SAT)

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| <p>01. What kind of substances are known as lubricants</p> <p>(1) Increase friction<br/>(2) Decrease friction<br/>(3) Increase or decrease friction<br/>(4) None of these</p> <p>02. Band of seven colours is called</p> <p>(1) VIBGYOR      (2) spectrum<br/>(3) dispersion      (4) reflection</p> <p>03. In case of reflection of light, the angle of incidence (i) and the angle of reflection (r) are related as</p> <p>(1) <math>i = r</math><br/>(2) <math>i &lt; r</math><br/>(3) <math>i &gt; r</math><br/>(4) no definite relation</p> <p>04. An object is vibrating at 50 hertz. What is its time period?</p> <p>(1) 0.02 s      (2) 2 s<br/>(3) 0.2 s      (4) 20.0 s</p> <p>05. 1 hertz is equal to</p> <p>(1) 1 vibration per minute<br/>(2) 10 vibrations per minute<br/>(3) 60 vibrations per minute<br/>(4) 600 vibrations per minute</p> <p>06. In LEDs, the longer lead (wire) is always connected to the _____ terminal</p> <p>(1) negative      (2) neutral<br/>(3) positive      (4) Any terminal</p> <p>07. Force acting on per unit area is called</p> <p>(1) non-contact forces<br/>(2) contact forces<br/>(3) force<br/>(4) pressure</p> | <p>08. Polymers are made up of small units called</p> <p>(1) layers      (2) molecules<br/>(3) cells      (4) monomer</p> <p>09. Which of the following cannot be recycled?</p> <p>(1) Toys      (2) Cooker handles<br/>(3) Carry bags      (4) Plastic chair</p> <p>10. Wood pulp is used to make</p> <p>(1) plastic      (2) wool<br/>(3) jute      (4) rayon</p> <p>11. The most reactive metal is</p> <p>(1) copper      (2) silver<br/>(3) potassium      (4) calcium</p> <p>12. Which of the following is a liquid at room temperature?</p> <p>(1) Iron      (2) Bromine<br/>(3) Iodine      (4) Phosphorus</p> <p>13. Petroleum is mainly a mixture of which one of the following class?</p> <p>(1) Carbohydrates      (2) Carbogens<br/>(3) Hydrocarbons      (4) Alcohols</p> <p>14. Which one of the following metals is the most ductile?</p> <p>(1) Aluminium      (2) Copper<br/>(3) Silver      (4) Gold</p> <p>15. The two important stable food crops of the world are:</p> <p>(1) Ragi and bajra      (2) Tea and coffee<br/>(3) Rice and wheat      (4) Millets and maize</p> <p>16. In India, spring harvest or winter crop is known as _____.</p> <p>(1) Kharif crop      (2) Zaid crop<br/>(3) Rabi crop      (4) Jhoom crop</p> |
|--|---|

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| <p>17. Which of the following are disease causing pathogens?<br/>             (1) Bacteria                      (2) Virus<br/>             (3) Protozoa                    (4) All of the above</p> <p>18. What is the main function of manures and fertilisers?<br/>             (1) To protect crops from insects and weeds<br/>             (2) To provided seeds with a good amount of water<br/>             (3) To provide proper nutrients to crops for growth<br/>             (4) To help crops in photosynthesis</p> <p>19. Unwanted plants growing along with crop plants are called _____.<br/>             (1) Herbs                      (2) Weeds<br/>             (3) Crops                      (4) Grass</p> <p>20. A cell without organized nucleus is called as<br/>             (1) Prokaryotic cell (2) Eukaryotic cell<br/>             (3) Both (1) &amp; (2) (4) None of the above</p> <p>21. Sara's income is 25% more than that of Anil. By what percent Anil's income is less than that of Sara?<br/><br/>             (1) 25    (2) 24    (3) <math>22\frac{1}{2}</math> (4) 20</p> <p>22. <math>5x^2 - 19x + 12 =</math><br/>             (1) <math>(5x - 4)(x - 3)</math><br/>             (2) <math>(5x - 4)(x + 3)</math><br/>             (3) <math>(x + 2)(5x - 1)</math><br/>             (4) <math>(5x - 6)(x - 1)</math></p> <p>23. The rational number <math>-\frac{18}{5}</math> lies between the consecutive integers _____.<br/>             (1) -2 and -3                      (2) -3 and -4<br/>             (3) -4 and -5                      (4) -5 and -6</p> | <p>24. A sum of money amounts to ₹5200 in 5 years and to ₹5680 in 7 years at simple interest. The rate of interest per annum is<br/>             (1) 3%    (2) 4%    (3) 5%    (4) 6%</p> <p>25. If <math>25^{n-1} + 100 = 5^{2n-1}</math>, then the value of 'n' is<br/>             (1) 5        (2) 2        (3) -2    (4) -3</p> <p>26. If <math>x - \frac{1}{x} = 4</math>, then <math>\left(x + \frac{1}{x}\right)</math> is equal to<br/>             (1) <math>5\sqrt{2}</math>                              (2) <math>2\sqrt{5}</math><br/>             (3) <math>4\sqrt{2}</math>                              (4) <math>4\sqrt{5}</math></p> <p>27. If <math>a^3 - b^3 = 56</math> and <math>a - b = 2</math>, then value of <math>(a^2 + b^2)</math> will be<br/>             (1) 48                                  (2) 20<br/>             (3) 22                                  (4) 5</p> <p>28. If <math>27^{2x-1} = (243)^3</math>, then the value of 'x' is<br/>             (1) 3                                      (2) 6<br/>             (3) 7                                      (4) 9</p> <p>29. The cost price of 36 books is equal to the selling price of 30 books. The gain percent is<br/><br/>             (1) 20%                              (2) <math>16\frac{4}{6}\%</math><br/>             (3) 18%                              (4) <math>82\frac{2}{6}\%</math></p> <p>30. Diagonals of a rectangle ABCD meet at O. If AC = 14 cm then BO is equal to<br/>             (1) 6 cm                              (2) 7 cm<br/>             (3) 8 cm                              (4) 14 cm</p> <p>31. Diagonals of which of the following quadrilaterals do not bisect each other?<br/>             (1) Parallelogram    (2) Trapezium<br/>             (3) Square                      (4) Rectangle</p> |
|---|--|

Space for rough work

32. What is the multiplicative inverse of  $a - \frac{1}{a}$ ?

(1)  $a + \frac{1}{a}$                       (2)  $\frac{1}{a} - a$

(3)  $\frac{a}{a-1}$                       (4)  $\frac{a}{a^2-1}$

33. If  $x - y = 2$ ,  $xy = 24$ , then the value of  $(x^2 + y^2)$  is

- (1) 25    (2) 36    (3) 63    (4) 52

34. Simplify:  $\left(\frac{1}{4}\right)^{-2} - 3(8)^{\frac{2}{3}}(4)^0 + \left(\frac{9}{16}\right)^{-\frac{1}{2}}$

(1)  $4\frac{1}{3}$     (2)  $5\frac{1}{3}$     (3)  $2\frac{1}{3}$     (4)  $6\frac{1}{3}$

35.  $(16^{0.16} \times 2^{0.36})$  is equal to

- (1) 2    (2) 16    (3) 32    (4) 64

36. Coal is an example of

- (1) renewable resources  
(2) non-renewable resources  
(3) human resources  
(4) potential resources

37. Resources are distributed unequally over the earth because of

- (1) the different natural conditions  
(2) level of development  
(3) technological levels  
(4) all of these

38. Balancing the need to use resources and also conserve them for the future is called

- (1) Sustainable development  
(2) Resource conservation  
(3) Resource development  
(4) Human resource development

39. On the basis of origin, Natural resources can be classified as \_\_\_\_\_ and \_\_\_\_\_.

- (1) Biotic and Abiotic resources  
(2) Renewable and Non Renewable  
(3) Actual and Potential resources  
(4) Ubiquitous and Localised resource

40. On the basis of their use and development, Natural resources can be classified as \_\_\_\_\_ and \_\_\_\_\_.

- (1) Biotic and Abiotic resources  
(2) Actual and Potential resources  
(3) Renewable and Non Renewable  
(4) Ubiquitous and Localised resources

41. Name the term that can be given to Land that is suitable for crop production.

- (1) Untilled Land    (2) Pasture Land  
(3) Forest Land    (4) Arable Land

42. What does the term Land degradation refer to?

- (1) Decline in the use of fertilizers  
(2) The decline in the productivity of cultivated land or forest land  
(3) Presence of rocks and minerals in the soil  
(4) The slope of the land

43. Thorium is found in large quantities in the Monazite sands of an important state of India. From the options given, choose the state.

- (1) Orissa                      (2) Kerala  
(3) Maharashtra    (4) Madhya Pradesh

44. Which is the deepest gold mine of India?

- (1) Kolar                      (2) Jharia  
(3) Raniganj                      (4) Bikaner

45. Name the country where there are no known mineral deposits in the world

- (1) France                      (2) Switzerland  
(3) Canada                      (4) Algeria

*Space for rough work*

46. What is the full form of PIL?
  - (1) Public Interest limited
  - (2) Public Interference Limited
  - (3) Public Interest litigation
  - (4) None of these
47. A sentence given by an Indian court can be reduced by the
  - (1) Prime Minister
  - (2) Vice-President
  - (3) President
  - (4) Central Council of Ministers
48. By which amendment the Fundamental duties were included in the Constitution?
  - (1) 38th Amendment
  - (2) 42nd Amendment
  - (3) 40th Amendment
  - (4) 39th Amendment
49. It is compulsory to give free primary education to
  - (1) all children
  - (2) all adults
  - (3) children aged below 6 years
  - (4) children aged between 6 and 14 years
50. Rabindranath Tagore renounced his knighthood after
  - (1) the Chauri Chaura incident
  - (2) the passing of the Rowlatt Act
  - (3) Gandhiji' call for noncooperation
  - (4) the Jallianwala Bagh incident

*Space for rough work*

# Mental Ability Test (MAT)

**Direction (76-80):** In each of the following questions, one term in the number series is wrong. Find out the wrong term.

51. 3, 2, 6, 8, 12, 32, 24, 96

- (1) 12 (2) 32 (3) 96 (4) 8

52. 7, 10, 19, 31, 50, 81

- (1) 7 (2) 31  
(3) 10 (4) None of these

53. 3, 5, 9, 16, 33, 65

- (1) 10 (2) 16 (3) 33 (4) 5

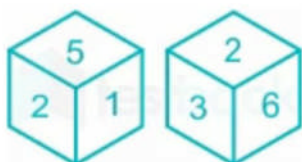
54. 150, 132, 110, 90, 72, 56

- (1) 150 (2) 110 (3) 90 (4) 72

55. 4, 5, 12, 39, 162, 805, 4836

- (1) 4836 (2) 805 (3) 39 (4) 162

56. Two different positions of the same dice are shown, select the number that will be on the face opposite to the one having 2 as per the options.



Find the number opposite to 1.

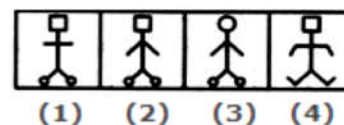
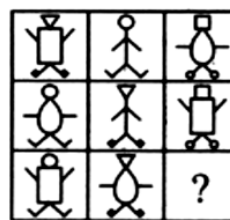
- (1) 5 (2) 6 (3) 4 (4) 3

57. Find out the missing character in the given matrix?

A	B	?
C	D	G
C	B	E

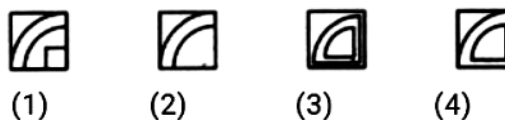
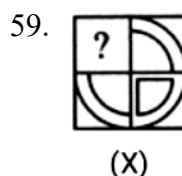
- (1) F (2) C (3) E (4) D

58. Select a suitable figure from the four alternatives that would complete the figure matrix.

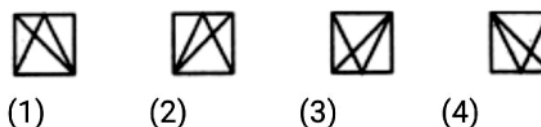
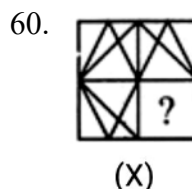


- (1) 1 (2) 2 (3) 3 (4) 4

**Direction (59-60):** Which of the answer figures given will complete the pattern of the question figure?



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



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

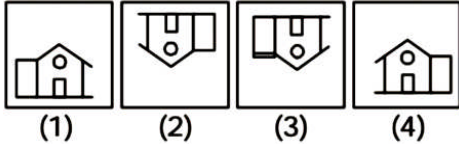
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**Direction (61-62):** Choose the correct water image of the question figure, from the given answer figure (assume that water is along XY).

61. Question Figure:

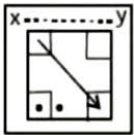


Answer Figures:

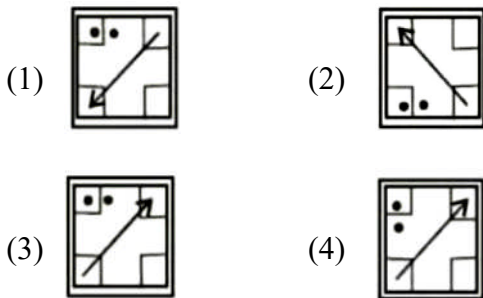


(1) 1      (2) 2      (3) 3      (4) 4

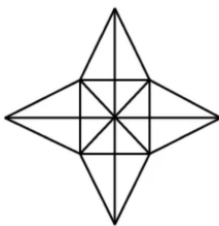
62. Questions Figure:



Answer Figures:



63. How many triangles are there in this figure?

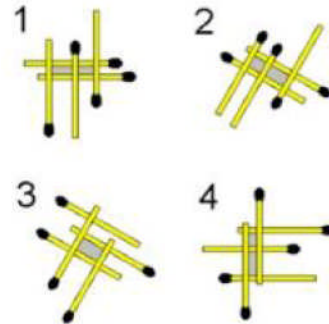


(1) 28      (2) 36      (3) 40      (4) 48

64. Choose the word which is least like the other words in the group.

- (1) Fleas                      (2) Parrot  
(3) Harbor                  (4) Grasshoppers

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



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

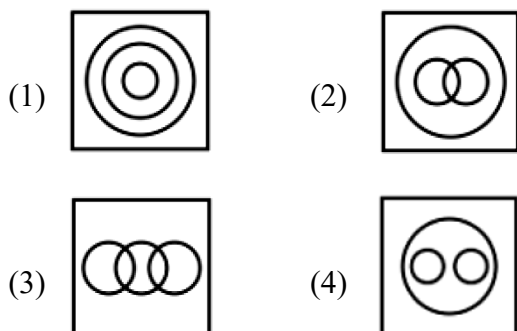
**Directions (66 to 70):** In each question there is a number series with one term missing shown by question mark (?). This term is one of the alternatives among the four numbers given under it. That number is -

66. 7, 21, 26, 78, 83, 249, 254, (?)  
(1) 614                      (2) 762  
(3) 815                      (4) 811
67. 2, 6, ?, 12, 14, 18, 20  
(1) 9                          (2) 7  
(3) 10                        (4) 8
68. 3, 6, 6, 4, 9, 2, 12, 0, (?), -2  
(1) 15                        (2) 07  
(3) 11                        (4) 14
69. 2, 10, 30, 68, (?), 222  
(1) 152                      (2) 207  
(3) 130                      (4) 290
70. 15, 31, 61, 123, (?), 491  
(1) 251                      (2) 245  
(3) 189                      (4) 328

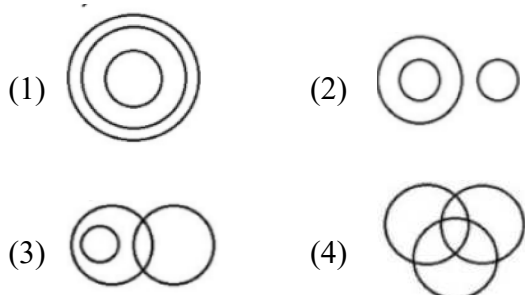
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71. Which of the following pictures best depicts the relationship between profit, divided and bonus?



72. Which of the following pictures best depicts the relationship between Judge, Thieves and Criminals?



73. In a row of girls, Kanya is fifth from the left and Preeti is sixth from the right. When they exchange their positions, then Kanya becomes thirteenth from the left. What will be Preeti's position from the right?

- (1) 7th (2) 11th  
(3) 14th (4) 18th

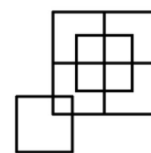
74. George is fifth from the left and Peter is twelfth from the right end in a row of children. If Peter shifts by three places towards George, he becomes tenth from the left end. How many children are there in the row?

- (1) 21 (2) 22 (3) 23 (4) 24

75. In the word "REASONING", how many pairs of letters have as many letters in between as they have in between them in the English alphabet series?

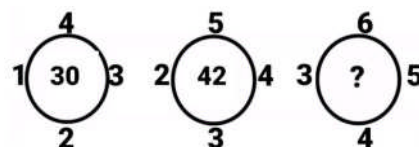
- (1) 3 (2) 1  
(3) 2 (4) None

76. Find the number of squares in the given picture.



- (1) 10 (2) 11 (3) 9 (4) 12

77. Find the missing number?



- (1) 54 (2) 45 (3) 35 (4) 53

78. A clock is set right at 5 am. The clock loses 16 min in 24 h. What will be the right time when the clock indicates 10 pm on the 3rd day?

- (1) 11 : 15 pm  
(2) 11 pm  
(3) 12 pm  
(4) 12 : 30 pm

79. What was the day of the week on 28th May, 2006?

- (1) Thursday  
(2) Friday  
(3) Saturday  
(4) Sunday

80. If it is possible to make a meaningful word with the first, the fourth, the seventh and the eleventh letters of the word INTERPRETATION, which of the following will be the third letter of that word? If more than one such word can be made, give 'M' as the answer and if no such word can be made, give 'X' as the answer.

- (1) I (2) R (3) X (4) M

81. Find the wrong term in the series given below.

26, 82, 214, 398, 702, 1082

- (1) 398 (2) 702 (3) 82 (4) 26

Space for rough work



82. Find the missing number?

23	5	110
56	9	121
49	3	?

- (1) 45    (2) 77    (3) 86    (4) 17

83. Deepak is the brother of Ravi. Rekha is sister of Atul, Ravi is son of Rekha. How is Deepak related to Rekha?

- (1) Son                      (2) Brother  
(3) Nephew                (4) Father

84. 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)  $197\frac{1}{2}^\circ$

85. What will come in place of question mark(?) in the following number series ?

1, 2, 3, 10, ?, 9802

- (1) 99    (2) 199    (3) 299    (4) 999

86. If  $41 + 41 = 17$

$$52 + 52 = 29$$

$$63 + 63 = 45$$

then  $98 + 98 = ?$

- (1) 153    (2) 97    (3) 145    (4) 29

87. A clock, which loses uniformly, is 15 min fast at 9 am on 3rd of the December and is 25 min less than the correct time at 3 pm on 6th of the same month. At what time was it correct?

- (1) 2 : 15 am on 3rd  
(2) 2 : 15 pm on 4th  
(3) 2 : 15 pm on 3rd  
(4) 2 : 15 am on 4th

88. In a certain code, PORTION is written as OROITNO. How is CRITICS written in that code?

- (1) BIRITSC                      (2) DIRTICS  
(3) DIRITSC                      (4) BIRISTC

89. In a certain code language, the word HUMBLE is written 'FMCNVI'. How will the word 'SYSTEM' be written in that language?

- (1) NUFZTT                      (2) TZTUFN  
(3) NFUTZT                      (4) TTUZFN

90. If COULD is code as 84127 and EXPEL is coded as 93592, then would you code COUPLE?

- (1) 841529                      (2) 418259  
(3) 541289                      (4) 814295

91. In a certain code, if SCHOOL is coded as 123445, TEAM as 6078, how is MOTEL coded in that code?

- (1) 34785                      (2) 60734  
(3) 84605                      (4) 34605

92. Which number would replace question mark in the series 5, 10, 17, ?, 37

- (1) 29    (2) 28    (3) 26    (4) 24

93. Which fraction comes next in the sequence 3,  $\frac{5}{2}$ ,  $\frac{7}{4}$ ,  $\frac{9}{8}$ ?

- (1)  $\frac{11}{8}$                       (2)  $\frac{10}{32}$   
(3)  $\frac{11}{16}$                       (4)  $\frac{12}{30}$

94. Find the missing number in the given series:

7, 11, 18, 29, \_\_\_\_\_ 76.

- (1) 41    (2) 50    (3) 51    (4) 47

**Direction(95-96):** study the following number series to answer the given question.

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

95. How many 3s are there in the series which are immediately preceded by an even number and immediately followed by an odd number?

- (1) 2    (2) 4    (3) 1    (4) 3

Space for rough work

96. How many such numbers are there in the series which are immediately preceded by its multiple?  
 (1) 3      (2) 1      (3) 5      (4) 4
97. Which of the following will not be number of the series 2, 10, 30, 68, 130, \_\_\_\_\_  
 (1) 729   (2) 222   (3) 520   (4) 1010
98. Which term comes next in the series? ZEC, XFE, VHH, TKJ,.....  
 (1) SGL                      (2) ROM  
 (3) ROL                      (4) SNL
99. Pointing towards a person in a photograph, Anjali said, "He is the only son of the father of my sister's brother". How is the person related to Anjali?  
 (1) Mother  
 (2) Father  
 (3) Maternal Uncle  
 (4) Brother
100. Pointing out a lady, Mohit said, "she is the daughter of the woman who is the mother of the husband of my mother". Who is the lady to Mohit?  
 (1) Aunt                      (2) Grand Daughter  
 (3) Daughter                (4) Sister

*Space for rough work*



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

# घर के पास सफलता और संस्कार

**Batch: VIII to IX Moving**

## ANSWER KEY

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

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