JAWAHAR NAVODAYA VIDYALAYA

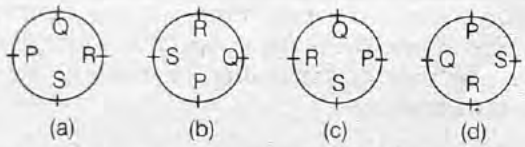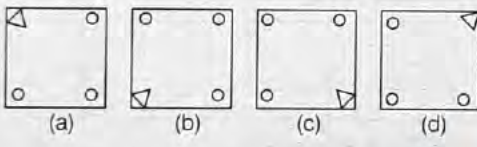## Entrance Exam (Class 6th)

Solved Paper 2021

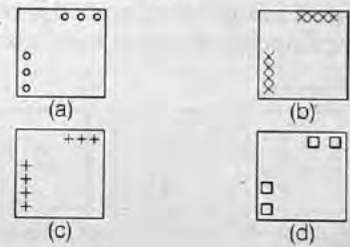Exam held on 11/08/2021

SECTION I: Mental Ability Test

Part I

Directions In Question Nos. 1 to 4 four figures (a), (b), (c) and (d) have been given in each question. Of these four figures, three figures are similar in some way and one figure is different. Select the figure which is different. Darken the circle for answer in the OMR Answer Sheet against the number corresponding to the question.

3. TIC   CTI   TEC   ITC
   (a)   (b)   (c)   (d)

Part II

Directions In Question Nos. 5 to 8, a question figure is given on the left side and four answer figures marked (a), (b), (c) and (d) are given on the right side. Select the answer figure which is exactly the same as the question figure and darken the circle in the OMR Answer Sheet against the number corresponding to the question.

Part III

Directions In Question Nos. 9 to 12, there is a question figure on the left side, a part of which is missing. Observe the answer figure (a), (b), (c) and (d) on the right side and find out the answer figure which, without changing the direction, fits in the missing part of the question figure in order to complete the pattern in the question figure. Indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.

9. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)

11. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)

10. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)

12. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)

Part IV

Directions In Question Nos. 13 to 16, there are three question figures on the left side and the space for the fourth figure is left blank. The question figures are in a series. Find out one figure from among the answer figures given on the right side which occupies the blank space for the fourth figure on the left side and completes the series. Indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.

13. Question Figures

Answer Figures

(a)   (b)   (c)   (d)

15. Question Figures

Answer Figures

(a)   (b)   (c)   (d)

14. Question Figures

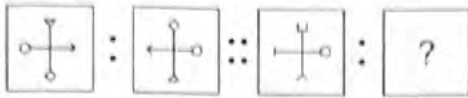Answer Figures

(a)   (b)   (c)   (d)

16. Question Figures

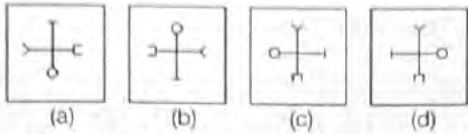Answer Figures

(a)   (b)   (c)   (d)

Part V

Directions In Question Nos. 17 to 20, there are two sets of two question figures each. The second set has an Interrogation mark (?). There exists a relationship between the first two question figures. Similar relationship should exist between the third and the fourth question figure. Select one of the answer figures which replaces the mark of Interrogation. Darken the circle in the OMR Answer Sheet against the number corresponding to the question.
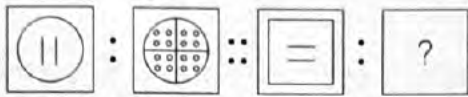
17. Question Figures

Answer Figures

(a)   (b)   (c)   (d)

18. Question Figures

Answer Figures

(a)   (b)   (c)   (d)
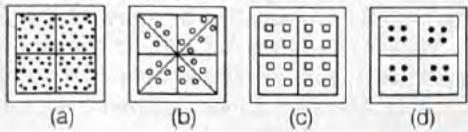
19. Question Figures

Answer Figures

(a)   (b)   (c)   (d)
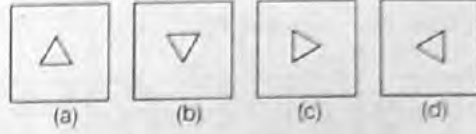
20. Question Figures

Answer Figures

(a)   (b)   (c)   (d)
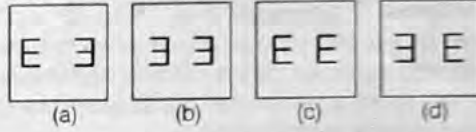
Part VI

Directions In Question Nos. 21 to 24, one part of a geometrical figure (Triangle, Square. Circle) is on the left side as question figure and the other one is among the four answer figures (a), (b), (c) and (d) on the right side. Find the figure on the right side that completes the geometrical figure and darken the circle in the OMR Answer Sheet against the number corresponding to the question.

21. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)

22. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
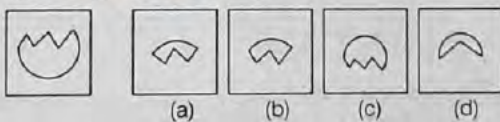
23. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
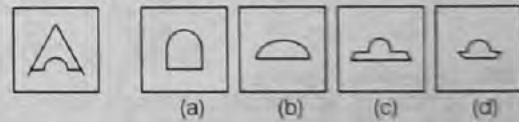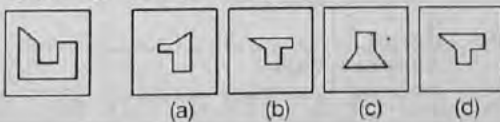
24. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
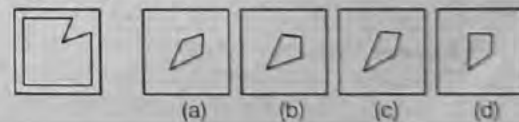
Part VII

Directions In Question Nos. 25 to 28. There is a question figure on the left side and four answer figures marked (a), (b), (C) and (d) are given on the right side. Select the answer figure which exactly the mirror Image of the question figure when the mirror is held at XY. Indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.
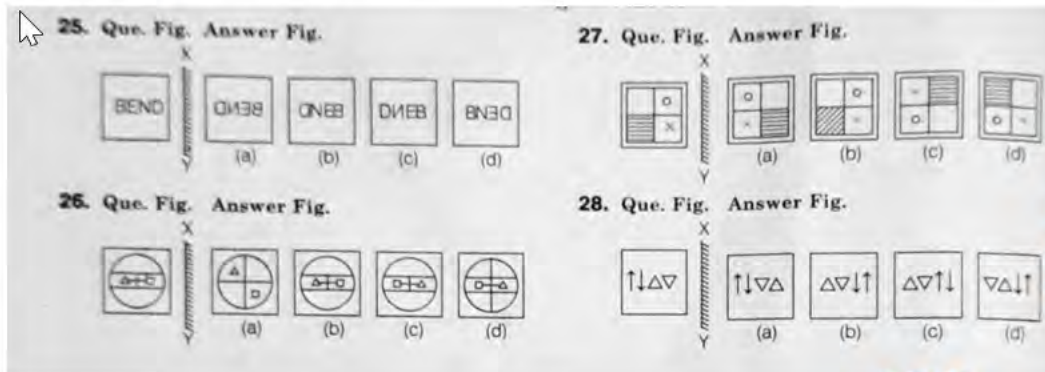
Part VIII

Directions In Question Nos. 29 to 32, a piece of paper is folded and punched as shown in question figures on the left side and four answer figures marked (a), (b), (c) and (d) are given on the right side Select the answer figure which indicates how the paper will appear when opened (unfolded). Indicate your answer by darkening the circle in the OMR Answer Sheet against the number corresponding to the question.
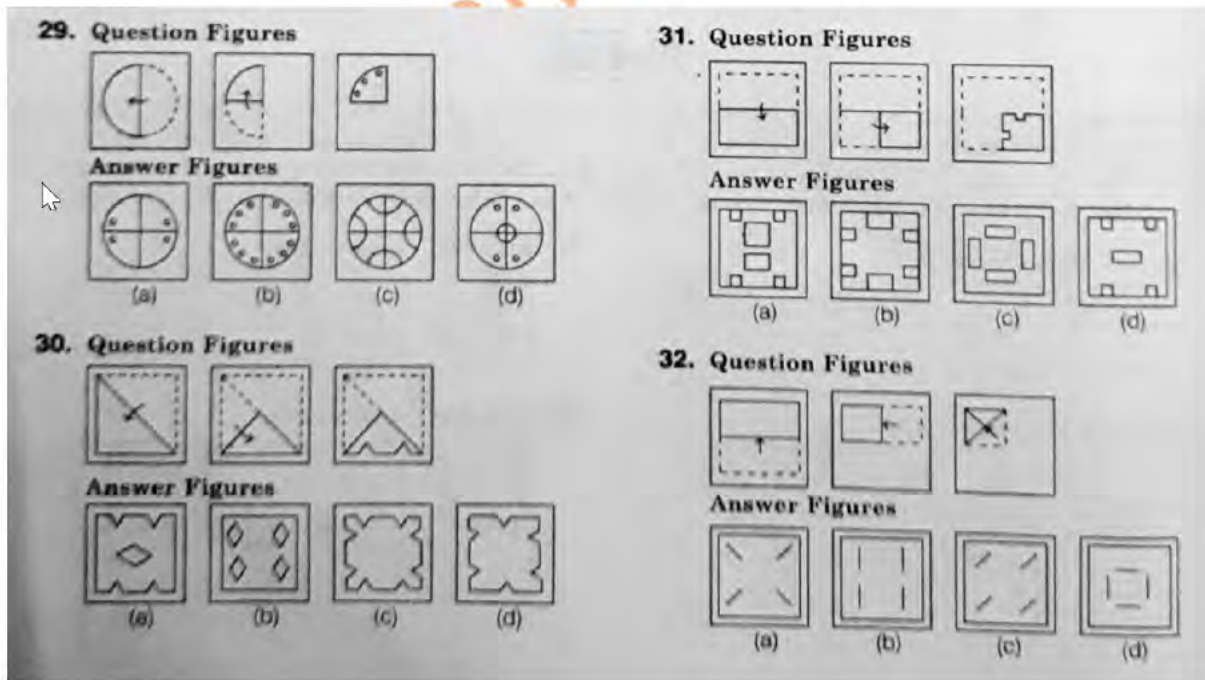
Part IX

Directions In Question Nos 33 to 36, a question figure is given on the left side and four answer figures marked (a), (b), (c) and (d) are given on the right side. Select the answer figure which can he formed from the cut-out pieces given in the question figure. Darken the circle In the OMR Answer Sheet against the number corresponding to the question.
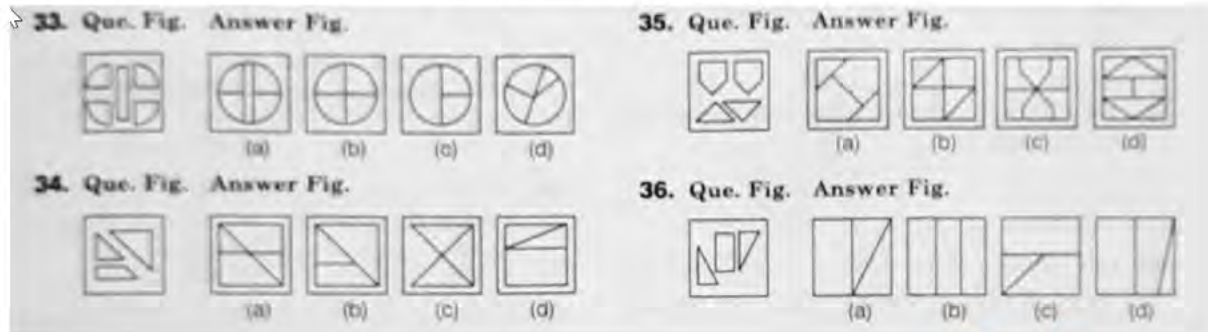
Part X

Directions In Question Nos. 37 to 40, a question figure is given on the left side and four answer figures marked (a), (b), (c) and (d) are given on the right side. Select the answer figure in which the question figure is hidden/embedded. Darken the circle in the OMR Answer Sheet against the number corresponding to the question.
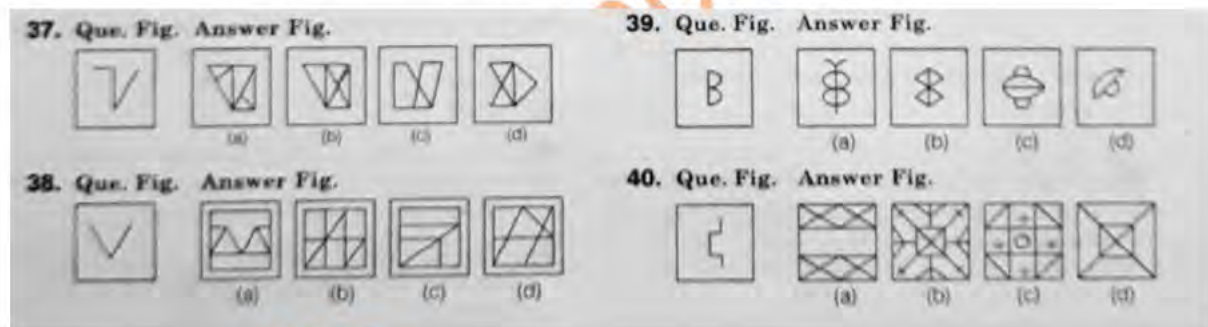
SECTION II: Arithmetic Test

Directions (Q. Nos 4l-60) For every question, four probable answers as (a), (b), (c) and (d) are given Only one out of these is correct. Choose the correct answer and darken the circle in the OMR Answer Sheet against the number corresponding to the question.

41, Given 154 x 18 = 2772 , then what is the value of 27.72 * 1.8 ?

(a) 1.54   (b) 15.4   (c) 154   (d) 1540

42. If the two perpendicular sides of right-angle triangle are 5 cm and 12 cm, then the perpendicular of triangle in

(a) 13 cm   (b) 17 cm   (c) 27 cm   (d) 30 cm

43. If $\dfrac{x}{25} = \dfrac{196}{x}$, then x is equal to

(a) 56   (b) 70
(c) 84   (d) 42

44. A sum of money double itself in 16 yr at simple interest. Annual rate will be

(a) 10%   (b) $6\dfrac{1}{4}$%
(c) 8%   (d) 16%

45. Find the approximate value of the following expression.

$$349 \times 51 + (632 \div 31)$$

(a) 17522   (b) 17520
(c) 17821   (d) 17521

46. In a school, $\dfrac{3}{5}$ of the children are boys and the number of girls is 800. The number of boys is

(a) 800   (b) 1000
(c) 1200   (d) 2000

47. A cricketer has an average of 28 runs in 24 innings. How many runs must he score in the 25th inning to make his average 29?

(a) 1   (b) 24
(c) 35   (d) 53

48. A match lasts for half an hour. $\dfrac{1}{10}$ of the match time is taken up for time out. For how many minutes does the time out last?

(a) 5 min   (b) 3 min
(c) 6 min   (d) 4 min

49. A buys a radio at $\dfrac{3}{4}$ of its mark price and sells it 20% more than its marked price. What is its gain per cent?

(a) 30   (b) 45
(c) 60   (d) 75

50. An article is purchased for ₹ 7500 and sold for ₹ 8400. The profit percentage is

(a) 8%   (b) 10%
(c) 12%   (d) $10\dfrac{5}{7}$%

51. What is the sum of first four prime numbers?

(a) 10   (b) 11
(c) 26   (d) 17

52. Simplify the following
$$3(13 + 6 \times 7) \div (11 \times 3) - (12 - 4 \times 2)$$

(a) 0   (b) 1
(c) 2   (d) 9

53. The greatest number that divides 270 and 426 leaving 6 as remainder in each case is

(a) 12   (b) 22
(c) 30   (d) 36

54. Which number is a multiple of all the three number 4, 8 and 6?

(a) 396   (b) 664
(c) 696   (d) 5432

55. A train started from Delhi at 8 : 15 am and reached Ajmer at 2:30 pm. The time taken by the train to reach Ajmer from Delhi is

(a) 10 h 45 min   (b) 6 h 15 min
(c) 6 h 30 min   (d) 6 h

56. The decimal equivalent of $12\dfrac{1}{16}$ is

(a) 12.625   (b) 12.6025
(c) 12.0625   (d) 12.0525

57. On simplification, the approximate value of $3.003 \times 15 + 0.0123 + 5.002575$ is

(a) 48   (b) 49
(c) 50   (d) 51

58. The sum of 7.7, 7.07, 7.007 and 77.0077 is

(a) 98.7807   (b) 98.7847
(c) 98.7877   (d) 98.7777

59. The difference between 6 digits smallest number and 4 digits greatest number is

(a) 1   (b) 9000
(c) 90001   (d) 900001

60. Numeral for two lakh two thousand is

(a) 20200   (b) 200200
(c) 202000   (d) 22000

SECTION III: Language Test

Directions (Q Nos. 61 - 80) There are four passages in this Section. Each passage is followed by five questions. Read each passage carefully and answer the questions that follow. For each question, four probable answers as (a), (b), (c) and (d) are given. Only one out of these is correct. Choose the correct answer and darken the circle in the OMR Answer Sheet against the number corresponding to the question.

Passage 1

Deepak was excited. He was going on a picnic on Sunday with his uncle and cousins Preet and Ria. He packed hiss backpack with his swimming kit, snacks and playthings. They started at 6 a.m. in the morning. It was a long drive and they reached the picnic spot at 9 a.m. It was a farmhouse in a village. They walked around the village to see the paddy fields and learnt

how the rice is grown. They climbed trees and plucked mangoes and guavas. In the afternoon they sat under a tree and had lunch. When uncle said it was time to guavas in the afternoon they sat under a tree and had lunch. When uncle said it was time to return home they wanted to stay longer because they liked the village so much.

61.   The word 'excited' means ....

(a)   confident

(b)   very happy

(c)   busy

(d)   depressed

62.   Deepak and his cousins ....

(a)   felt bored in the village

(b)   enjoyed the picnic

(c)   wanted to return home

(d)   could not climb trees

63.   Deepak went on a picnic with his...........0

(a) parents   (b)   uncle and cousins

(c) friends   (d)   sister

64.   The picnic spot was in a........

(a) park   (b)   beach

(c) village   (d)   swimming pool

65.   Uncle showed Deepak how..........

(a) we eat   (b) to swim

(c) to drive   (d) rice is grown

Passage 2

Have you played the Tug of War. It is an interesting game. To play this game, we need some open space, a long and strong rope and two teams of players. The game is interesting only if both the teams are strong. A line is drawn between both the teams. The team which gets pulled and made to cross the line in the middle, the team of the game, lost the game. The strongest member of the team, standing at the end of the rope and the team pull the rope in a united manner. The playground should be cleaned of stones. Otherwise it may take some injuries.

66.   Tug of War is.........

(a)   a war

(b)   a rope

(c)   a game

(d)   a fight

67.   In 'Tug of War' we do................

(a)   boxing

(b)   hiding

(c)   rope pulling

(d)   batting and bowling

68.   The end of the rope is held by the ....

member of the team.

(a) tallest   (b)   shortest

(c) strongest   (d)   youngest

69.   The team which is pulled across the line in

the middle is.........

(a) the winner (b)   the loser

(c) successful (d)   given another chance

70.   The word 'united' means

(a) together (b) fight   (c) pull   (d) winning

Passage-3

There are only two simple rules to follow to lose weight or to maintain a healthy weight. They are to eat a balanced diet with less fat and sugar and to exercise more. You don't have to starve to lose weight. If you eat less sugar, cakes, biscuits and eat more fruits and vegetables and drink plenty of water, you will lose weight and be healthier. Go for a walk or cycling every day. Be more active instead of watching television or playing video games.

71.   How can we remain healthy?

(a)   By eating biscuits only

(b)   By doing exercise only

(c)   By eating a balanced diet and doing exercise

(d)   -------+----------------------------**+-By eating more fruits

72.   What do we have to eat more to lose weight?

(a) Sugar and cakes

(b) Fruits and vegetables

(c) Biscuits and sugar

(d) Biscuits and fruits

73.   What do we have to drink in plenty to remain healthier?

(a) Colas

(b) Fruit juice

(c) Water

(d) Vegetable juice

74.   Which is a good exercise for all?

(a) Walking and cycling

(b) Kite flying

(c) Playing video games

(d) Watching television

Which word is opposite in meaning to the word, 'active'?

(a) dull   (b) inactive   (c) interested   (d) energetic

Passage-4

Autumn is the season that comes between summer and winter. There are many things are change in this beautiful season. Days become shorter. Leaves of trees turn from green to lively red, yellow and orange. Infact trees need sunlight to keep their leaves green. Without sunlight leaves turn pale. The grass is no longer blanketed with dew but with frost almost every morning, as temperatures reach the freezing point. Animals start storing up a food supply to last through the long winter months. These changes occur as we adjust from the heat of the summer to the chill of the winter.

76.   Autumn occurs between summer and.........

(a) January   (b) Spring

(c) winter   (d) solstice

77.   Which of the following changes may occur during autumn?

(a) Days becomes shorter

(b) It becomes very hot

(c) Days become longer

(d)   There is more sunlight

78.   Leaves turn pale during autumn because they

(a)   don't get enough oxygen

(b)   don't get enough light

(c)   don't get enough water

(d)   store too much oxygen

79.   What do animals begin to do to prepare for the end of autumn?

(a)   Store food   (b)   Eat less

(c)   Shed fur   (d)   Turn colours

80.   Another word for 'blanketed' is

(a) grass   (b)   woollen

(c) covered   (d)   grew up

Answers

1 (a)	2 (d)	3 (c)	4 (c)	5 (d)	6 (c)	7 (c)	8 (c)	9 (d)	10 (b)
11 (b)	12 (c)	13 (b)	14 (b)	15 (c)	16 (b)	17 (c)	18 (c)	19 (b)	20 (a)
21 (b)	22 (d)	23 (c)	24 (b)	25 (a)	26 (c)	27 (a)	28 (d)	29 (b)	30 (c)
31 (c)	32 (a)	33 (a)	34 (b)	35 (a)	36 (a)	37 (a)	38 (a)	39 (a)	40 (b)
41 (b)	42 (d)	43 (b)	44 (b)	45 (c)	46 (c)	47 (d)	48 (b)	49 (c)	50 (c)
51 (d)	52 (b)	53 (a)	54 (c)	55 (b)	56 (c)	57 (c)	58 (b)	59 (c)	60 (c)
61 (b)	62 (b)	63 (b)	64 (c)	65 (d)	66 (c)	67 (c)	68 (c)	69 (b)	70 (a)
71 (c)	72 (b)	73 (c)	74 (a)	75 (b)	76 (c)	77 (a)	78 (b)	79 (a)	80 (c)