

# Jawhar Navodaya Vidyalaya

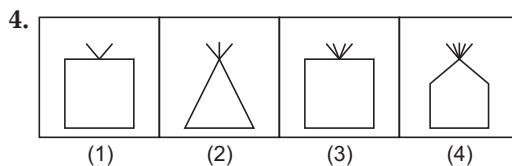
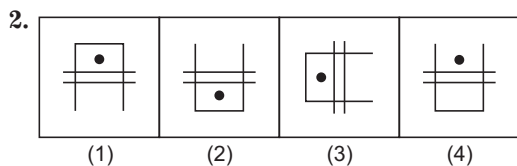
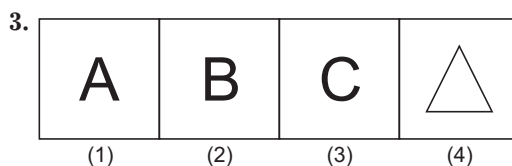
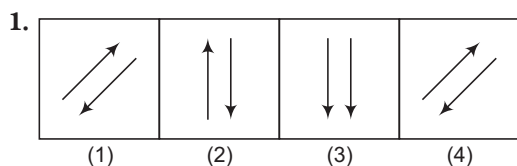
## Entrance Exam (Class VI)

### PRACTICE SET 5

#### Section I Mental Ability Test

##### Part I

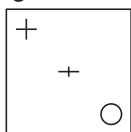
**Directions** (Q.Nos. 1-4) In questions, four figures 1, 2, 3 and 4 have been given in each question of these four figures, there figures are similar in some way and one figure is different. Select the figure which is different.



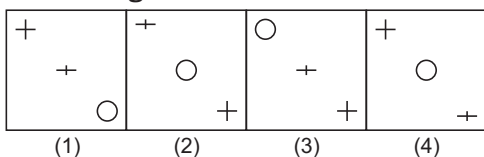
##### Part II

**Directions** (Q. Nos. 5-8) In questions, a question figure is given and four answer figures marked 1, 2, 3 and 4 are also given. Select the answer figure which is exactly the same as the question figure.

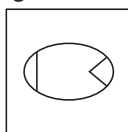
##### 5. Question Figure



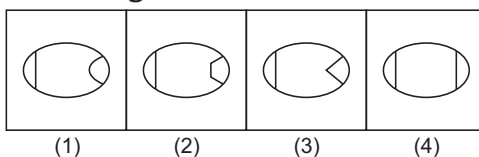
##### Answer Figures



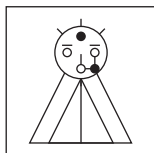
##### 6. Question Figure



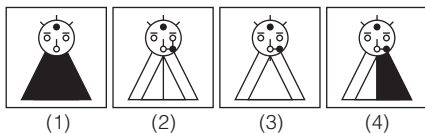
##### Answer Figures



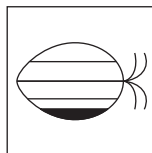
## 7. Question Figure



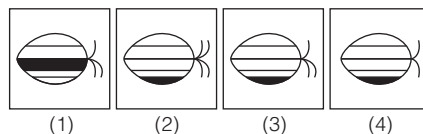
## Answer Figures



## 8. Question Figure



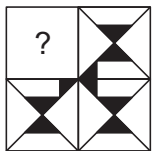
## Answer Figures



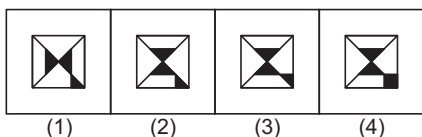
## Part III

**Directions** (Q. Nos. 9-12) In questions, there is a question figure, a part of which is missing. Observe the answer figure 1, 2, 3 and 4 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.

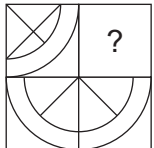
## 9. Question Figure



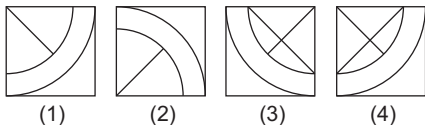
## Answer Figures



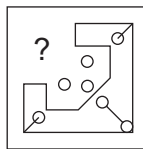
## 10. Question Figure



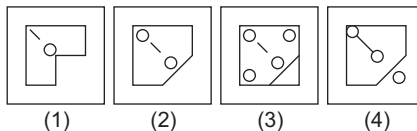
## Answer Figures



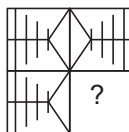
## 11. Question Figure



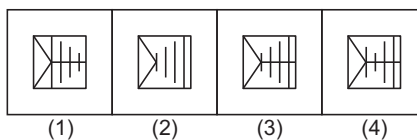
## Answer Figures



## 12. Question Figure



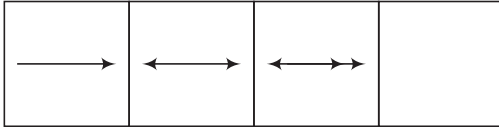
## Answer Figures



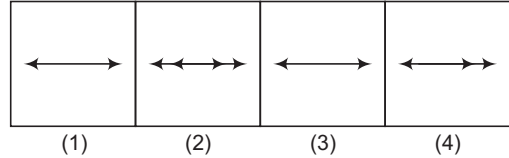
## Part IV

**Directions** (Q. Nos. 13-16) There are three question figures and the space for the fourth figure is left blank. The question figures are in a series. Find out one figure among the answer figures given, which occupies the blank space for the fourth figure and completes the series.

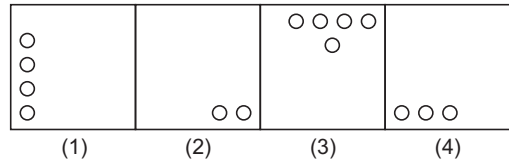
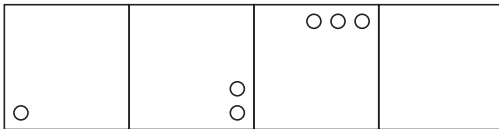
### 13. Question Figures



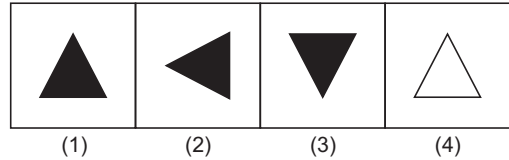
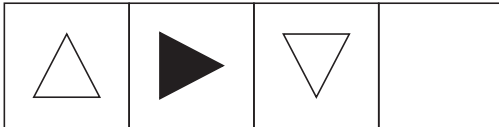
### Answer Figures



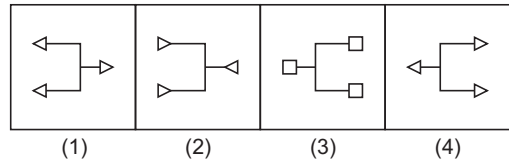
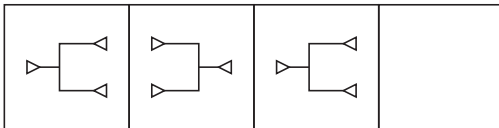
### 14.



### 15.



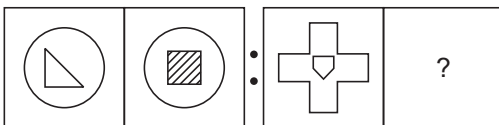
### 16.



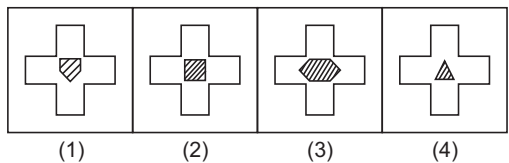
## Part V

**Directions** (Q.Nos. 17-20) In questions, there are two sets of two question figures each. The second set has a mark of interrogation (?). There exists a relationship between the first two question figures, similar relationship should exist between the third and fourth question figure. Select one of the answer figure which replace the mark of interrogation.

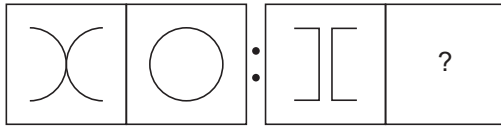
### 17. Question Figures



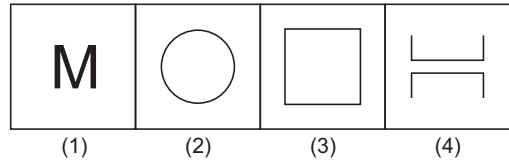
### Answer Figures



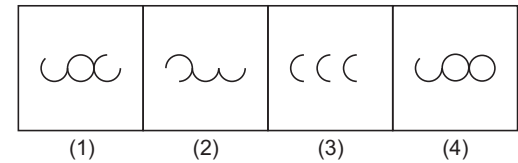
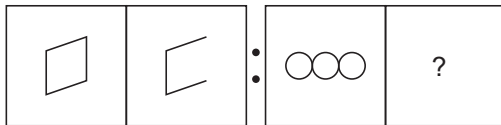
## 18. Question Figures



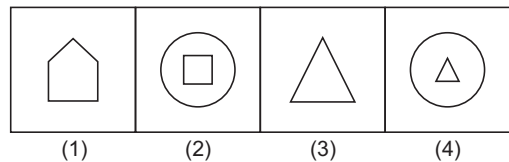
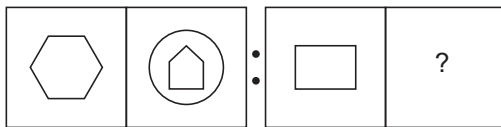
## Answer Figures



## 19.



## 20.



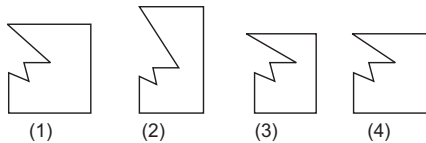
## Part VI

**Directions** (Q.Nos. 21-24) In questions, one part of a geometrical figure is given as question figure and the other one is among the four answer figures 1, 2, 3 and 4 are also given. Find out the figure that completes the geometrical figure.

## 21. Question Figure



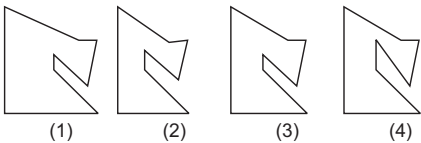
## Answer Figures



## 22. Question Figure



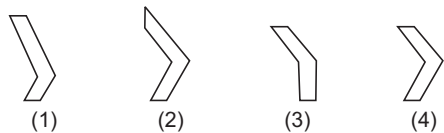
## Answer Figures



## 23. Question Figure



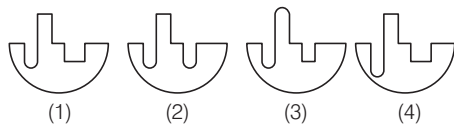
## Answer Figures



## 24. Question Figure



## Answer Figures



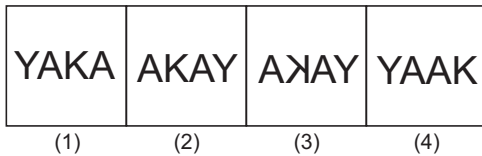
## Part VII

**Directions** (Q.Nos. 25-28) In questions, there is a question figure and four answer figures marked 1, 2, 3 and 4 are also given. Select the answer figure which is exactly the mirror image of the question figure when the mirror is held at AB.

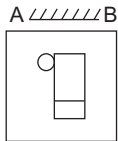
### 25. Question Figure



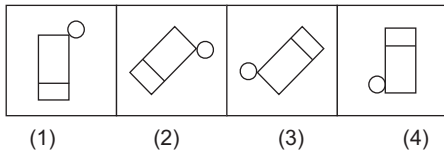
#### Answer Figures



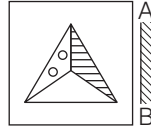
### 26. Question Figure



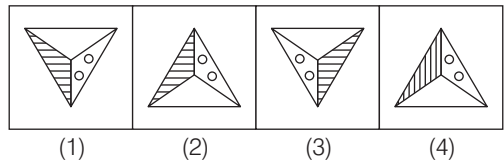
#### Answer Figures



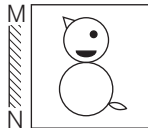
### 27. Question Figure



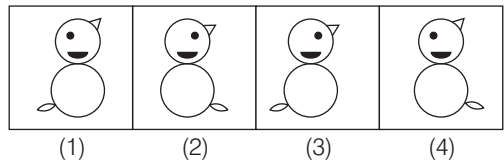
#### Answer Figures



### 28. Question Figure



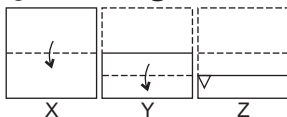
#### Answer Figures



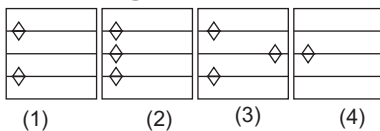
## Part VIII

**Directions** (Q.Nos. 29-32) In questions, a piece of paper is folded and punched as shown in question figures and four answer figures marked 1, 2, 3 and 4 are also given. Select the answer figure which indicated how the paper will appear when opened (unfolded).

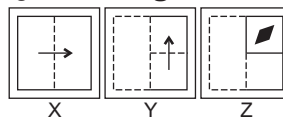
### 29. Question Figures



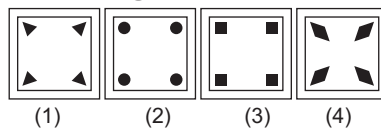
#### Answer Figures



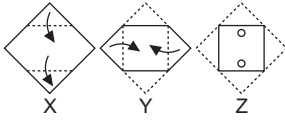
### 30. Question Figures



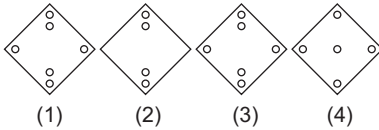
#### Answer Figures



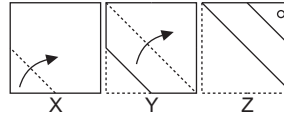
## 31. Question Figures



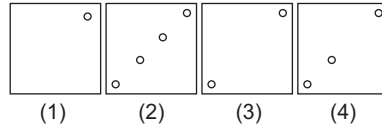
## Answer Figures



## 32. Question Figures



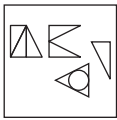
## Answer Figures



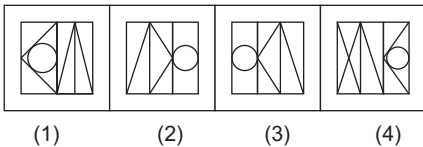
## Part IX

**Directions** (Q.Nos. 33-36) In questions, a question figure is given and four answer figures, marked 1, 2, 3 and 4 are also given. Select the answer figure which can be formed from the cut off pieces given in the question figure.

## 33. Question Figure



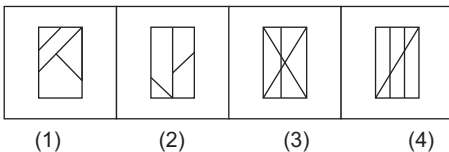
## Answer Figures



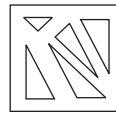
## 34. Question Figure



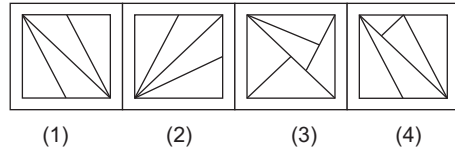
## Answer Figures



## 35. Question Figure



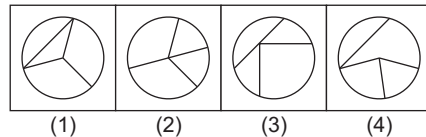
## Answer Figures



## 36. Question Figure



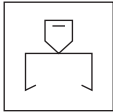
## Answer Figures



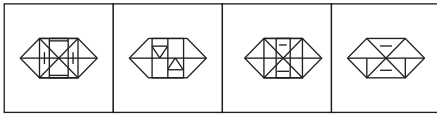
## Part X

**Directions** (Q.Nos. 37-40) In questions, a question figure is given and four answer figures, marked 1, 2, 3 and 4 are also given. Select the answer figure in which the question figure is hidden/embedded.

### 37. Question Figure

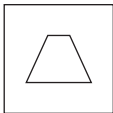


#### Answer Figures

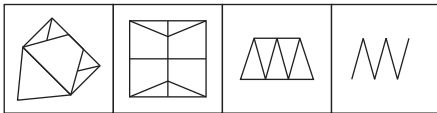


(1) (2) (3) (4)

### 38. Question Figure

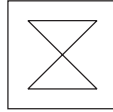


#### Answer Figures

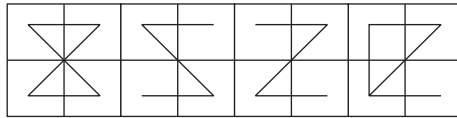


(1) (2) (3) (4)

### 39. Question Figure

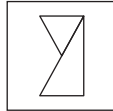


#### Answer Figures

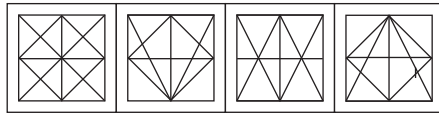


(1) (2) (3) (4)

### 40. Question Figure



#### Answer Figures



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

## Section II Arithmetic Test

**Directions** (Q.Nos. 41-60) Four alternative choices 1, 2, 3 and 4 are given for the all questions, in which only one is correct. To select the correct answer.

41. What will be the sum of the numbers from 1 to 25?

- (1) 322 (2) 325  
(3) 340 (4) 285

42. What will be the HCF of 48, 144 and 576?

- (1) 576 (2) 144  
(3) 48 (4) 1

43. Simplify  $(0.50 + 0.15 \div 0.05) \times \frac{2}{7}$ .

- (1) 1 (2) 0  
(3) 3 (4) 5

44. What is the approx value of 16268?

- (1) 16200 (2) 16300  
(3) 16260 (4) 16270

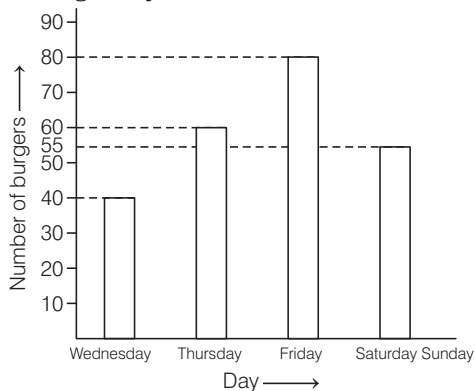
45. After bought a ceiling fan on ₹ 750, one sells it with a profit of 18%, then find the selling price.

- (1) ₹ 850 (2) ₹ 885  
(3) ₹ 860 (4) ₹ 855

46. A sum amounted to ₹ 2486 with the interest of 13% per annum, then what is the sum?

- (1) ₹ 2300 (2) ₹ 2150  
(3) ₹ 2000 (4) ₹ 2200

47. Sampurna Kranti Express departures from Patna at 5:50 pm and arrives New Delhi at 8:15 am of the next day. What is the total time of the journey?  
 (1) 12 h 25 min (2) 14 h 35 min  
 (3) 14 h 25 min (4) 12 h 35 min
48. What is the greatest four digits number in which all the digits are different?  
 (1) 9876 (2) 9768  
 (3) 9867 (4) 9786
49. Next term of 258, 130, 66, 34, 18,..... is  
 (1) 12 (2) 10  
 (3) 8 (4) 13
50. In which number quotient is 23 and remainder is 7. When divided by 17?  
 (1) 368 (2) 328  
 (3) 358 (4) 398
51. The product of two decimals is 20.7326. If one decimal is 4.13, what is the other decimal?  
 (1) 5.12 (2) 4.82  
 (3) 5.23 (4) 5.02
52. If the cost price of 12 packets of biscuits is ₹ 240, the cost price of 8 packets of biscuits will be  
 (1) ₹ 160 (2) ₹ 140  
 (3) ₹ 120 (4) ₹ 240
53. The following bar diagram shows the sale (number of burgers) of a burger saler during 5 days.



If total sale of burger was 320. Then number of burger sold on Sunday?

- (1) 85 (2) 80  
 (3) 75 (4) 90
54. The value of  $5 - \left(2\frac{1}{2} - \frac{3}{4}\right) + \left(3\frac{1}{2} - 1\frac{1}{4}\right)$  is  
 (1)  $4\frac{1}{2}$  (2)  $5\frac{1}{2}$   
 (3)  $5\frac{1}{4}$  (4)  $3\frac{1}{2}$
55. The value of 0.05% is  
 (1) 0.0005  
 (2) 0.005  
 (3) 0.05  
 (4) 0.5
56. Find a prime even number out of the following numebrs.  
 (1) 4 (2) 6  
 (3) 2 (4) 13
57. I bought a watch for ₹ 400 and sold of it for ₹ 484. Find the gain per cent.  
 (1) 40 (2) 21  
 (3) 36 (4) 24
58. What is the greatest number that divides both 16 and 20 exactly?  
 (1) 40  
 (2) 32  
 (3) 80  
 (4) 4
59. A cyclist travels at a speed of 25 km/h. How far will be travels in 30 min?  
 (1) 12.5 km  
 (2) 12 km  
 (3) 10 km  
 (4) 15 km
60. Each side of square is of 10 m. What will be the area of the square?  
 (1)  $100\text{ m}^2$   
 (2)  $90\text{ m}^2$   
 (3)  $30\text{ m}^2$   
 (4)  $40\text{ m}^2$



## Section III Language Test (English)

**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 bearing numbers 1, 2, 3 and 4 are given. Only one out of these are correct. You have to choose the correct answer.*

### Passage 1

A certain king once fell ill and doctors declared that only a sudden fright would restore him to health. But the king was not a man for anyone to play tricks on, except his fool. One day, when the fool was with him in his boat, he cleverly pushed the king into the water. Help had already been arranged and the king was drawn ashore and put to bed. The fright, the bath and the rest in bed cured the diseased king, but he was so angry with the fool that he turned him out of the country. The fool returned, however and the king ordered him to be put to death. Saying privately that he would only repay fright with fright, he directed the executioner not to use the axe but to let fall a single drop of water on the fool's neck. The fool was led to the gallows. The executioner dropped a drop of water on the fool's neck and amidst shouts and laughter the fool was asked to rise and thank the king for his kindness. But the fool never moved; he was dead—killed by his master's joke.

**61. How could the sick king be cured?**

- (1) The fool pushed the king into the water from his boat. The fright so caused, the bath and the rest in bed cured the king of his sickness
- (2) The fool arranged for expert doctors who cured the sick king
- (3) The doctors attending on the sick king cut with him fine jokes which cured the sick king
- (4) The king undertook the treatment given by the doctors very carefully; therefore, he was cured in due course

**62. Who alone could afford to play tricks on the king?**

- (1) The queen alone
- (2) The fool alone
- (3) The doctor alone
- (4) The king's son alone

**63. Why did the king turn the fool out of his country?**

- (1) Because the fool was useless and didn't do anything

(2) Because the fool played a dangerous trick on the king and this made the king very angry with him

(3) Because the doctors had advised him to do so since the fool overstepped his authority

(4) Because the fool had consciously misbehaved with the king

**64. How did the fool meet his end?**

(1) His master, the king's joke killed him

(2) He was drowned into the water and was killed

(3) The king got him hanged on the gallows

(4) The king turned the fool out of the country; the fool starved and died uncared for

**65. Did the king really want the fool to die?**

(1) Yes, the king really wanted the fool to die

(2) No, the king didn't really want the fool to die

(3) No mention has been made in the passage regarding the king's intention in this regard

(4) It is difficult to ascertain from king's order to send him to gallows

### Passage 2

Prevention is better than cure, and it is recognised that the only way to get rid of malaria completely is to get rid of the mosquitoes which cause it. Malaria is always associated with damp and marshy land. This is not because the land is damp, but because stagnant water is the breeding place of the mosquito which begins its life as a larva living in the water. Malaria does not frequently occur in dry desert countries because mosquitoes cannot breed there. The only way to destroy mosquitoes is to prevent their breeding in standing water.

**66.** What can be a suitable title for the passage?

- (1) Prevention is better than cure
- (2) How to get rid of malaria
- (3) The breeding ground of malaria
- (4) The deadly mosquito

**67.** How does malaria occur?

- (1) It is caused by contaminated food
- (2) It is caused by contaminated water
- (3) It is caused by mosquitoes breeding in damp and marshy land
- (4) It is a seasonal disease, no cause is associated with it

**68.** How can we get rid of malaria?

- (1) We can get rid of malaria by destroying mosquitoes and preventing their breeding in standing water
- (2) We can get rid of malaria by inoculation

(3) We can get rid of malaria by vaccination

(4) We can prevent malaria by taking quinine pills regularly

**69.** Why do we not get malaria in the dry desert?

- (1) Because the sand of the dry desert kills mosquitoes causing malaria
- (2) Because mosquitoes causing malaria do not breed in dry desert
- (3) Because there is no pollution in the atmosphere of a dry desert
- (4) Because we develop immunity to malaria in the climate of dry desert

**70.** Give the opposite word of 'stagnant'.

- (1) still
- (2) deep
- (3) shallow
- (4) flowing

### Passage 3

All the housewives who went to the Kalpatharu Supermarket in Bengaluru had one great ambition : to be the lucky customer who did not have to pay for her shopping. For this was what the notice just inside the entrance promised. It said : 'Remember, once a week, one of our customers gets free goods. This may be your lucky day !'

For several weeks Mrs Batliwala hoped, like many of her friends, to be the lucky customer, Unlike her friends she never gave up hope. Her kitchen was full of things which she did not need. Her husband failed to dissuade her. She dreamed of the day when the manager of the Supermarket would approach her and say : "Madam, this is your lucky day. Everything in your basket is free". One Saturday morning, Mrs Batliwala finished her shopping and left the Supermarket. But soon she discovered that she had forgotten to buy tea. She rushed back, got the tea and went towards the cash-desk. As she did so, she saw the manager of the Supermarket come up to her. 'Madam', he said, holding out his hand, "I want to congratulate you ! You are our lucky customer and everything you have in your basket is free".

**71.** 'It said' What does 'It' stand for?

- (1) The notice
- (2) The cash-desk
- (3) The basket
- (4) The Supermarket

**72.** What happened on lucky days?

- (1) Prize was awarded to the customer having made the largest purchases
- (2) One of the customers got free goods
- (3) Every customer got some prize money irrespective of what he or she purchased
- (4) One of the items of purchase was allowed to be taken free by every customer

**73.** Why did Mrs Batliwala buy things which she did not need?

- (1) She dreamed of the lucky day when she would get every item in the basket free of cost

(2) She was fond of shopping for shopping's sake

(3) She was generous enough to share items, which she did not need, with her friends

(4) She used to flaunt her superiority by buying things which she didn't need

**74.** 'Her husband failed to dissuade her'. What did her husband want?

- (1) Her husband wanted her to continue shopping every day until she became the lucky customer
- (2) Her husband wanted her to stop purchasing of things which she did not need
- (3) Her husband wanted her not to be misguided by the manager of the Supermarket
- (4) Her husband wanted to make purchases himself

**75.** Why did the manager congratulate Mrs Batliwala?

- (1) As she had become their permanent customer
- (2) Since she had become the luckiest of all customers

(3) Since he knew that she had got a very generous husband

(4) Mrs Batliwala had become the lucky customer for she did not have to pay for her shopping

### Passage 4

A person who looks at the good side of things sees good things. We call such a person an *optimist*. One who looks at the bad side of things is a *pessimist*. One who looks at the good qualities of others will make many friends and live a happy life. The others will make their own as well as the lives of others miserable. We expect others not to look at or mind our bad qualities. Let us remember that the others too expect the same from us. A very good way to live a happy life with several friends is to lean to look at the good qualities of other.

**76.** Who is an optimist?

- (1) One who looks at the dark side of things
- (2) One who looks at the good side of things
- (3) One who enjoys helping others
- (4) One who relishes finding fault with others

**77.** What do we expect from others?

- (1) They must help us
- (2) They must be friendly with us
- (3) They must not look at or mind our bad qualities
- (4) They should live like good neighbours

**78.** What does a pessimist do?

- (1) A pessimist looks at the good side of things
- (2) A pessimist looks at the bad side of things
- (3) A pessimist believes in making friends with others
- (4) A pessimist is a selfish sort of person

**79.** In what way does being an optimist help one?

- (1) It helps one make many friends and live a happy life
- (2) An optimist acquires good habits which help him to live happily
- (3) An optimist can easily withstand the troubles of life
- (4) An optimist helps others, therefore others are always ready to help him

**80.** Which word in the passage means 'unhappy, pitiable'?

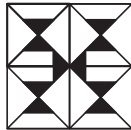
- (1) Pessimist
- (2) Optimist
- (3) Bad
- (4) Miserable

### Answers

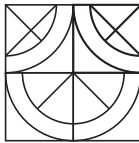
1 (3)	2 (4)	3 (4)	4 (1)	5 (1)	6 (3)	7 (2)	8 (2)	9 (2)	10 (3)
11 (4)	12 (3)	13 (2)	14 (1)	15 (2)	16 (2)	17 (3)	18 (3)	19 (4)	20 (4)
21 (3)	22 (3)	23 (4)	24 (2)	25 (3)	26 (4)	27 (2)	28 (1)	29 (1)	30 (4)
31 (2)	32 (1)	33 (1)	34 (1)	35 (4)	36 (1)	37 (3)	38 (1)	39 (1)	40 (3)
41 (2)	42 (3)	43 (1)	44 (4)	45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

## Hints and Solutions

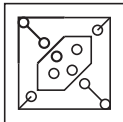
1. Except figure (3), in all the figures, both the arrow opposite from each other. Hence, answer figure (3) is odd one out.
2. Figure (4) is different from other due to positioning of darken smaller circle. Hence, answer figure (4) is odd one out.
3. Except figure (4), there are all the English language letters in all the figures. Hence, answer figure (4) is odd one out.
4. Figure (1) is different from other due to having the lesser number of line as compare to the sides of geometrical shape inside the figure. Hence, answer figure (1) is odd one out.
9. Answer figure (2) will complete the given question figure.



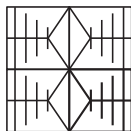
10. Answer figure (3) will complete the given question figure.



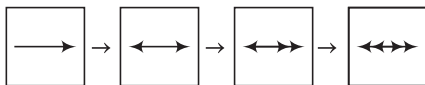
11. Answer figure (4) will complete the given question figure.



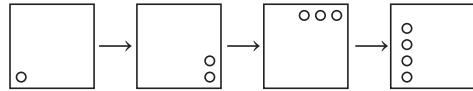
12. Answer figure (3) will complete the given question figure.



13. In every successive figure, a sign of an arrow is increasing in an opposite direction.



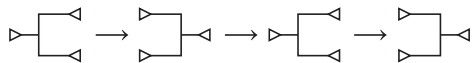
14. In every successive figure, there is an increase of smaller circle in anti-clockwise direction.



15. Every successive figure is rotating 90° clockwise and being white and black alternatively.



16. Figure are repeating an alternate basis, hence option (2) would be the right choice.



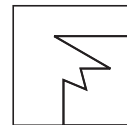
17. As in question figure, innermost design having increased one arm with shadow in second figure to first one, in the same way innermost design having increased one arm with shadow to have the final figure of third one.

18. As in question innermost of second is result of an joining the innermost of first one after getting rotated in either side in the same way innermost of fourth is result of a joining the innermost of third one after getting rotated in either side.

19. As in question figure, some part of first figure is missing in second in the same way some part of third is missing in fourth.

20. As in question figure, first figure getting lesser with one arm in the same way third figure getting lesser with one arm resulting fourth one.

21. Answer figure (3) will complete the given geometrical figure.



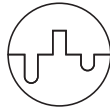
22. Answer figure (3) will complete the given geometrical figure.



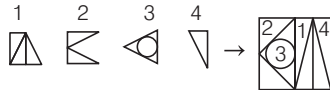
23. Answer figure (4) will complete the given geometrical figure.



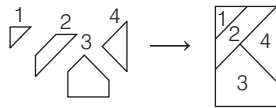
24. Answer figure (2) will complete the given geometrical figure.



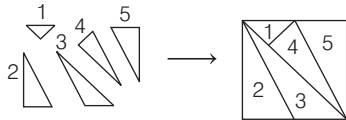
29. When the paper is unfolded, it is shown as in the answer figure (1).  
 30. When the paper is unfolded, it is shown as in the answer figure (4).  
 31. When the paper is unfolded, it is shown as in the answer figure (2).  
 32. When the paper is unfolded, it is shown as in the answer figure (1).  
 33. Answer figure (1) can be formed by using the cut pieces.



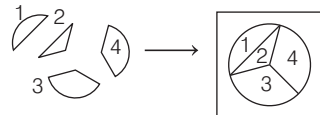
34. Answer figure (1) can be formed by using the cut pieces.



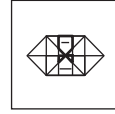
35. Answer figure (4) can be formed by using the cut pieces.



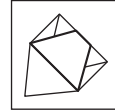
36. Answer figure (1) can be formed by using the cut pieces.



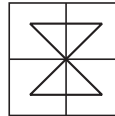
37. The question figure is embedded in the answer figure (3).



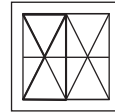
38. The question figure is embedded in the answer figure (1).



39. The question figure is embedded in the answer figure (1).



40. The question figure is embedded in the answer figure (3).



41. The sum of  $n$ th term =  $\frac{n(n+1)}{2}$

Here,  $n = 25$

$$\therefore \text{Sum} = \frac{25 \times (25+1)}{2} = \frac{25 \times 26}{2}$$

$$= 13 \times 25 = 325$$

42. 
$$\begin{array}{r} 48) 144 \quad (3 \\ \underline{144} \\ \times \end{array}$$

Again, 
$$\begin{array}{r} 48) 576 \quad (12 \\ \underline{48} \\ 96 \\ \underline{96} \\ \times \end{array}$$

$\therefore \text{HCF} = 48$

43. 
$$\left( 0.50 + 0.15 \times \frac{1}{0.05} \right) \times \frac{2}{7} = (0.50 + 3) \times \frac{2}{7}$$

$$= 3.5 \times \frac{2}{7} = \frac{7}{7} = 1$$

44. Approximate value of  $16268 = 16270$

45. Let the selling price be ₹ x.

According to the question,

$$\text{Selling price} = \frac{750 \times (100 + 18)}{100}$$

$$\therefore \text{Selling price} = ₹ 885$$

46. Let the sum is 100%, then sum amounted with 13% per annum interest =  $(100 + 13)\% = 113\%$

$$\therefore 113\% = 2486$$

$$\therefore 100\% = \frac{100 \times 2486}{113} = ₹ 2200$$

47. Time taken in the journey

$$= 8 : 15 \text{ am of the next day} - 5 : 50 \text{ pm}$$

$$= 20 : 15 - 5 : 50 = 14 : 25 = 14 \text{ h } 25 \text{ min}$$

48. Arrange it in descending order starting from 9.

Hence, required number = 9876

$$49. \begin{array}{ccccccccc} 258 & 130 & 66 & 34 & 18 & 10 \\ \hline & \div 2+1 & \div 2+1 & \div 2+1 & \div 2+1 & \div 2+1 \end{array}$$

50. Number =  $17 \times 23 + 7 = 391 + 7 = 398$

51. Suppose second decimal = x

$$\text{Then } x \times 4.13 = 20.7326$$

$$\Rightarrow x = \frac{20.7326}{4.13} = 5.02$$

52.  $\therefore$  Cost price of 12 packets = ₹ 240

$$\therefore \text{Cost price of 1 packet} = \frac{240}{12} = ₹ 20$$

$$\therefore \text{Cost price of 8 packets} = 8 \times 20 = ₹ 160$$

53. Total sale of Burger = 320

$$\text{Burger sold on Wednesday} = 40$$

$$\text{Burger sold on Thursday} = 60$$

$$\text{Burger sold on Friday} = 80$$

$$\text{Burger sold on Saturday} = 55$$

$$\text{Now, burger sold on Sunday}$$

$$= \text{Total sale} - \text{Sale on (Wed+Thu+Fri+Sat)}$$

$$= 320 - (40 + 60 + 80 + 55)$$

$$= 320 - 235 = 85$$

$$\begin{aligned} 54. & 5 - \left[ \frac{5}{2} - \frac{3}{4} \right] + \left[ \frac{7}{2} - \frac{5}{4} \right] \\ &= 5 - \left[ \frac{10 - 3}{4} \right] + \left[ \frac{14 - 5}{4} \right] \\ &= 5 - \frac{7}{4} + \frac{9}{4} \\ &= \frac{20 - 7 + 9}{4} = \frac{22}{4} \\ &= \frac{11}{2} = 5 \frac{1}{2} \end{aligned}$$

$$55. 0.05\% = \frac{0.05}{100} = 0.0005$$

56. Prime number are 2, 3, 5, 7, 11, 13, 17 etc.

$\therefore$  Prime even number is 2.

57. Profit = SP - CP =  $484 - 400 = ₹ 84$

$$\begin{aligned} \therefore \text{Gain percentage} &= \frac{\text{Profit}}{\text{CP}} \times 100 \\ &= \frac{84}{400} \times 100 = 21\% \end{aligned}$$

58. LCM of 16 and 20,

2	16,	20
2	8,	10
2	4,	5
2	2,	5
5	1,	5
	1,	1

$$= 2 \times 2 \times 2 \times 2 \times 5 = 80$$

Hence, required number = 80

59. 1 h = 60 min

$$\text{Distance covered in 60 min} = 25 \text{ km}$$

$$\text{Distance covered in 1 min} = \frac{25}{60} \text{ min}$$

$$\text{Distance covered in 30 min} = \frac{25}{60} \times 30 = 12.5 \text{ km}$$

60. Area of square = Side  $\times$  Side =  $10 \times 10 = 100 \text{ m}^2$