

# Jawahar Navodaya Vidyalaya

## Entrance Exam (Class VI)

Solved Paper  
2013

### Section I Mental Ability Test

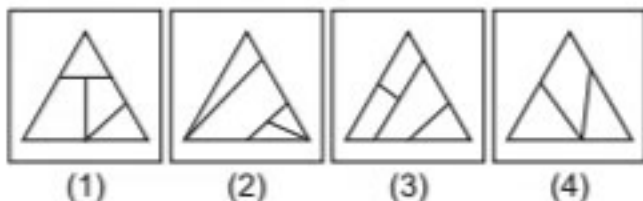
#### Part I

**Directions** (Q.Nos. 1-5) *In the given questions, there is a problem figure, observe the answer figures (1), (2), (3) and (4) and find out the answer figure which can be formed from the cut pieces of problem figure?*

#### 1. Problem Figure



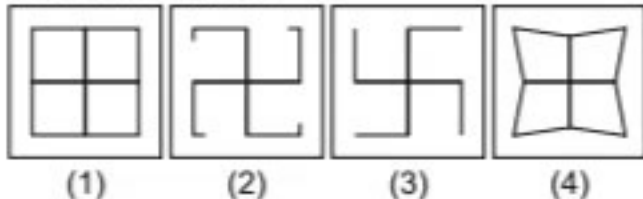
#### Answer Figures



#### 2. Problem Figure



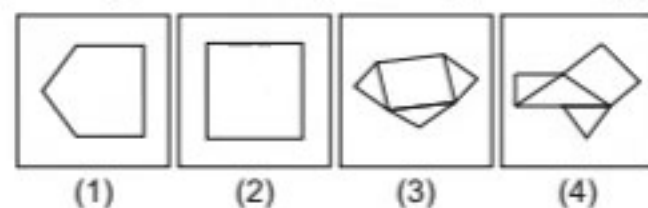
#### Answer Figures



#### 3. Problem Figure



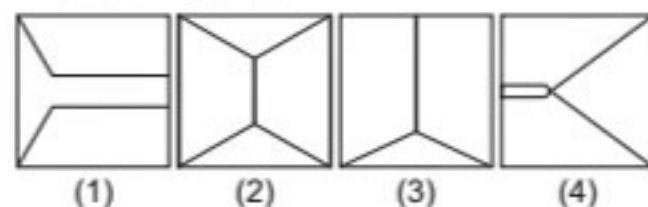
#### Answer Figures



#### 4. Problem Figure



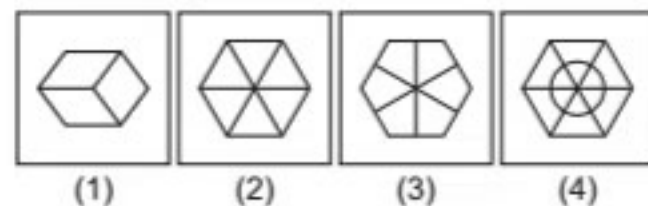
#### Answer Figures



#### 5. Problem Figure



#### Answer Figures



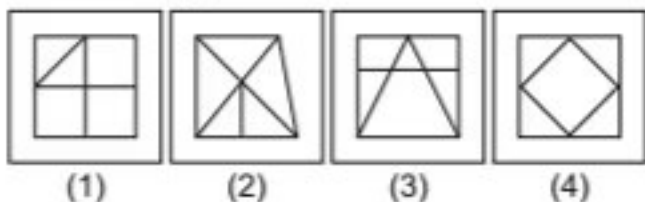
## Part II

**Directions** (Q.Nos. 6-10) In the given questions, there is a problem figure. Observe the answer figures (1), (2), (3) and (4) and find out the answer figure which is hidden /embedded in the problem figure?

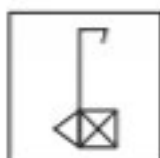
**6. Problem Figure**



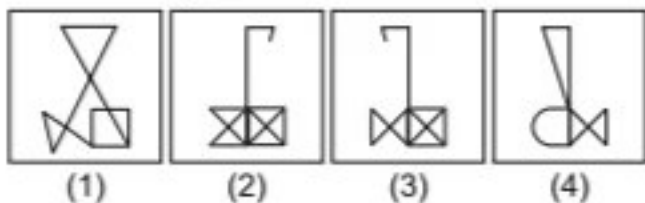
**Answer Figures**



**7. Problem Figure**



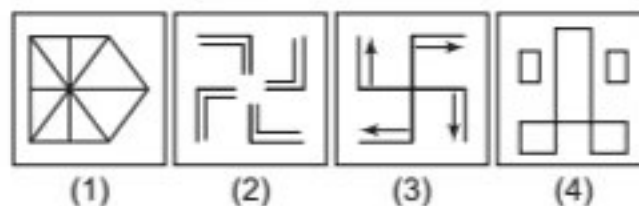
**Answer Figures**



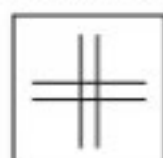
**8. Problem Figure**



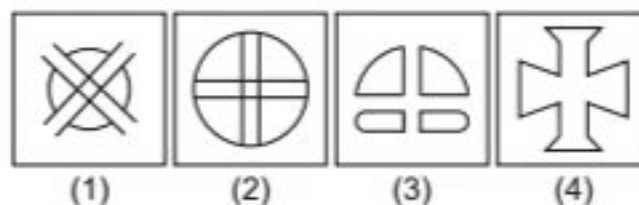
**Answer Figures**



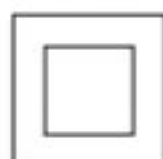
**9. Problem Figure**



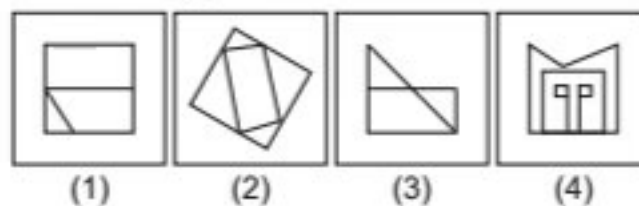
**Answer Figures**



**10. Problem Figure**



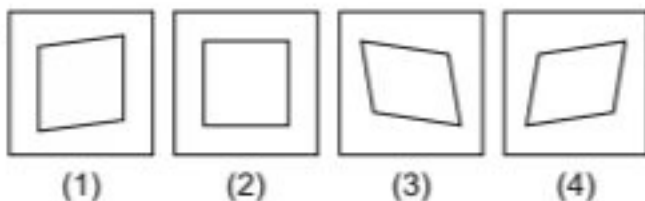
**Answer Figures**



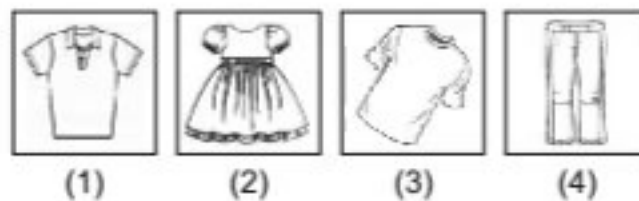
## Part III

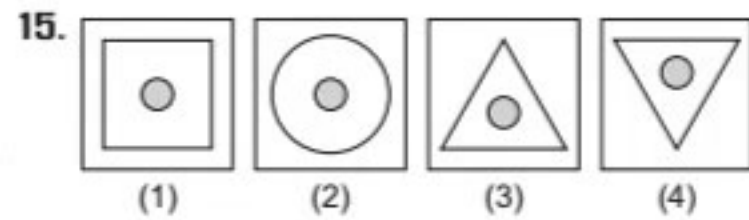
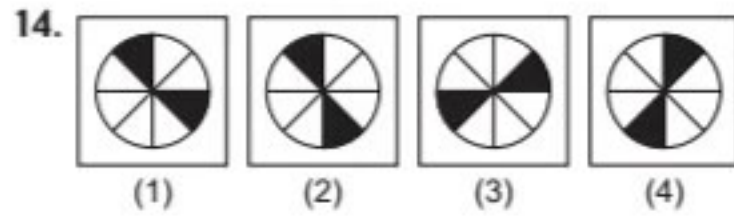
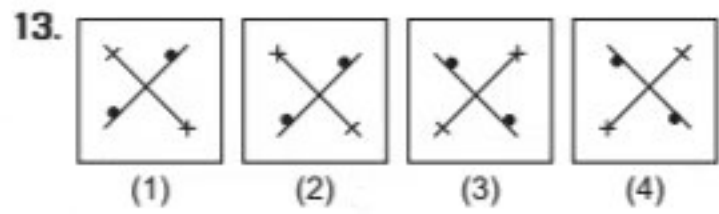
**Directions** (Q.Nos. 11-15) In the given questions, there are four figures (1), (2), (3) and (4). Out of these four figures, three figures are similar but one is different. Find out the different figure.

**11.**



**12.**





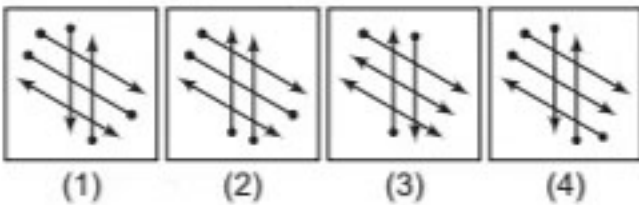
## Part IV

**Directions** (Q.Nos. 16-20) In the given questions, there is a problem figure and four answer figures (1), (2), (3) and (4). You have to find out the answer figure which is similar to the given problem figure?

16. Problem Figure



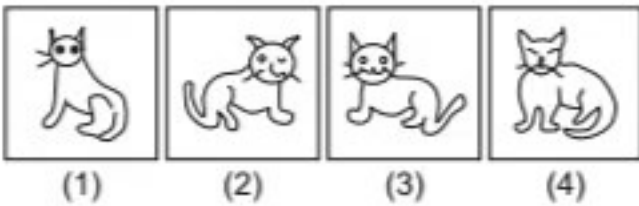
Answer Figures



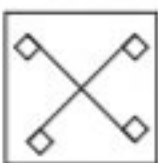
17. Problem Figure



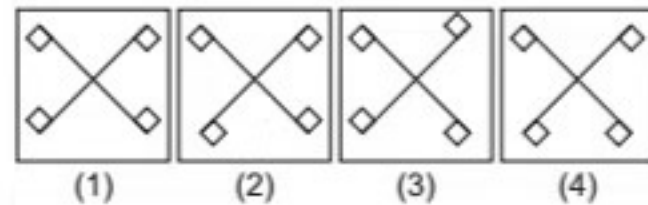
Answer Figures



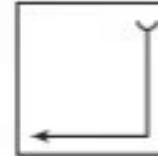
18. Problem Figure



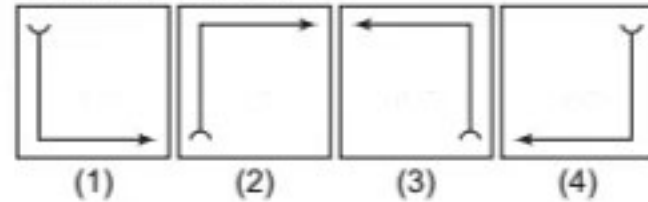
Answer Figures



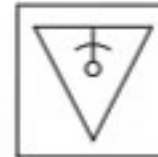
19. Problem Figure



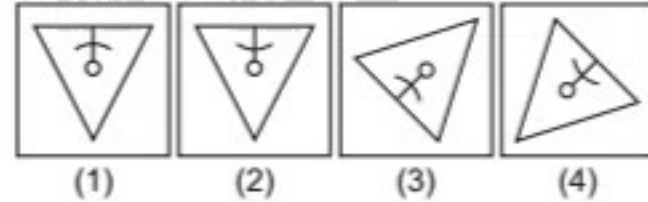
Answer Figures



20. Problem Figure



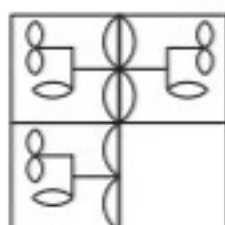
Answer Figures



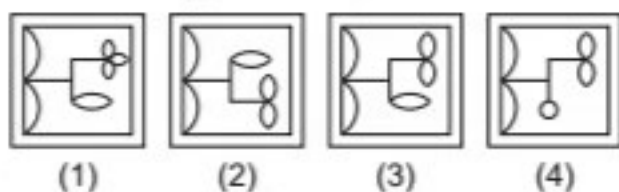
## Part V

**Directions** (Q.Nos. 21-25) In the given questions, there is a problem figure a part of which is missing. Observe the answer figures (1), (2), (3) and (4) and find out the answer figure which without changing the direction, fits in the missing part in problem figure in order to complete the pattern in the problem figure.

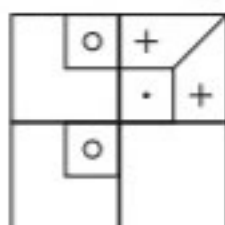
### 21. Problem Figure



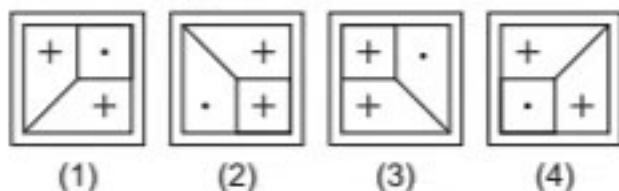
#### Answer Figures



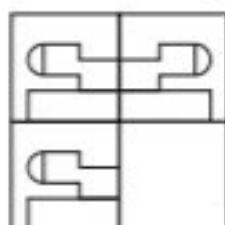
### 22. Problem Figure



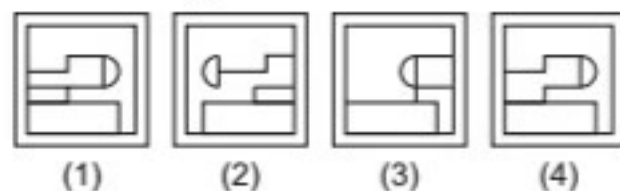
#### Answer Figures



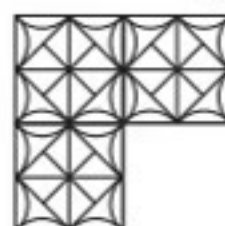
### 23. Problem Figure



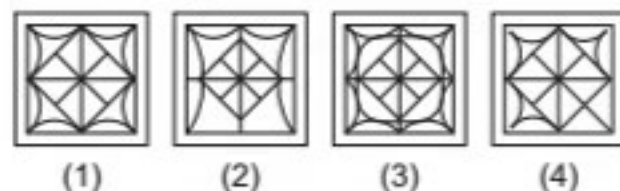
### Answer Figures



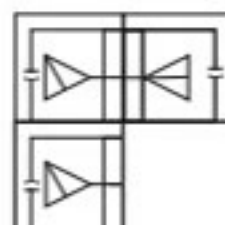
### 24. Problem Figure



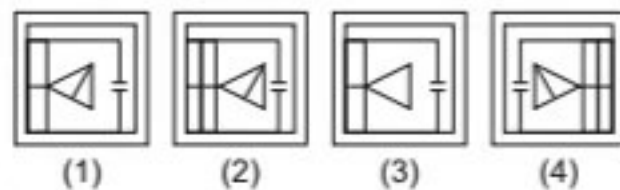
#### Answer Figures



### 25. Problem Figure



#### Answer Figures



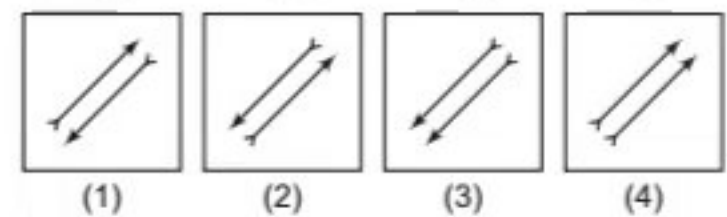
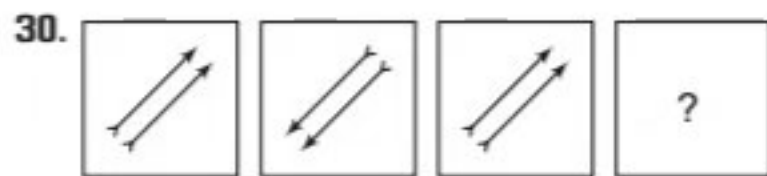
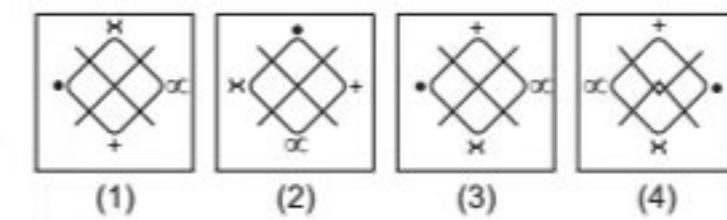
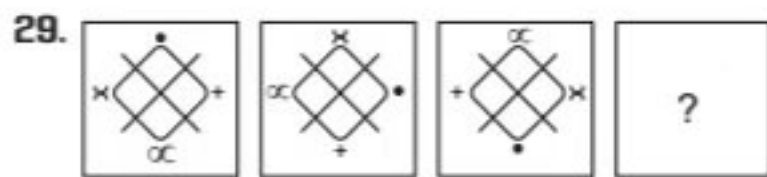
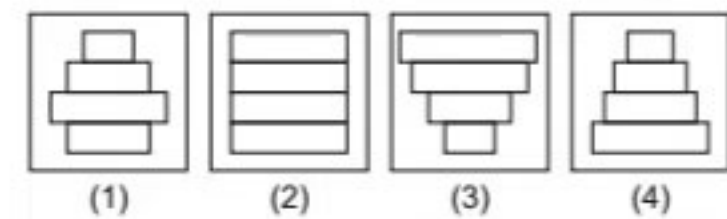
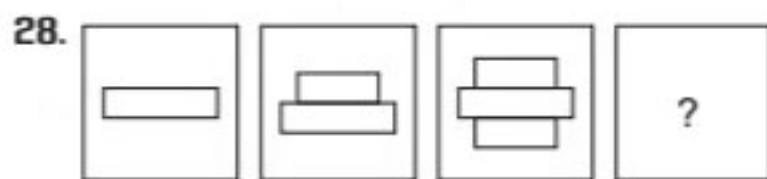
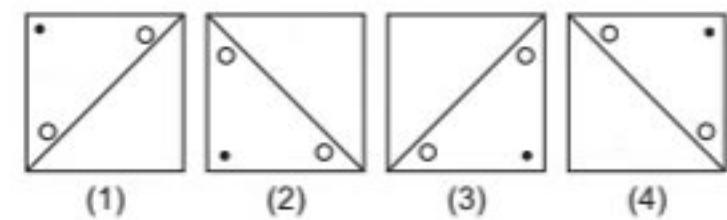
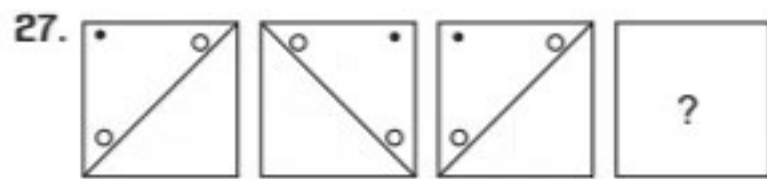
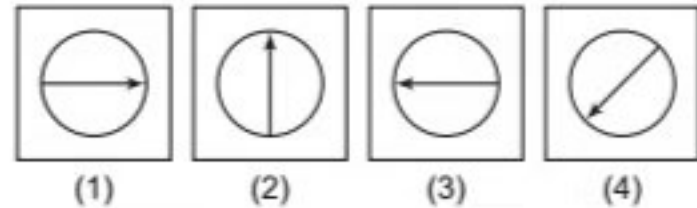
## Part VI

**Directions** (Q.Nos. 26-30) In the given question, there are problem figures and the blank space for fourth figure. The problem figures are in a series. Find out one figure among the answer figures which occupies the blank space for the fourth figure and which completes the series?

### 26. Problem Figures



### Answer Figures



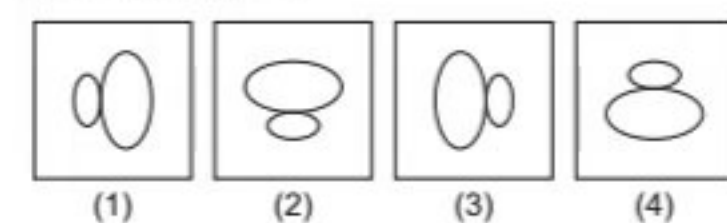
## Part VII

**Directions** (Q.Nos. 31-35) In the given questions, there are three problem figures followed by a question mark (?) for the fourth one. There exists a relationship between first two problem figures. A similar relationship should exist between the third and the fourth problem figures. Select one figure from answer figures which replaces the question mark (?).

### 31. Problem Figures



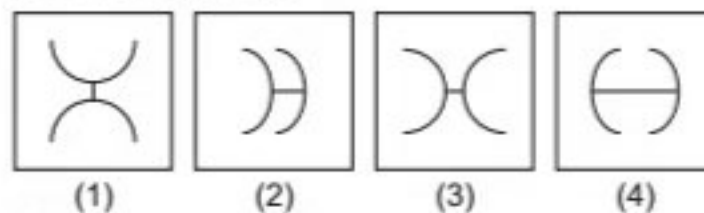
### Answer Figures



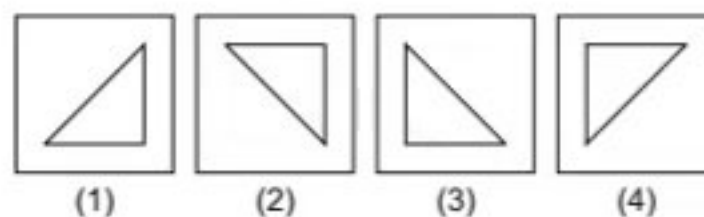
**32. Problem Figures**



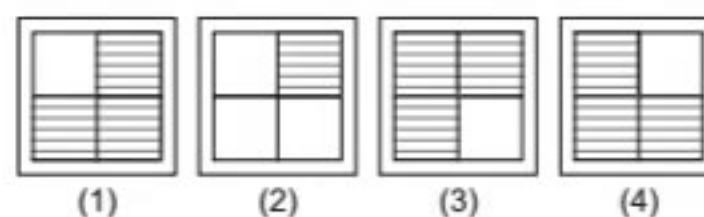
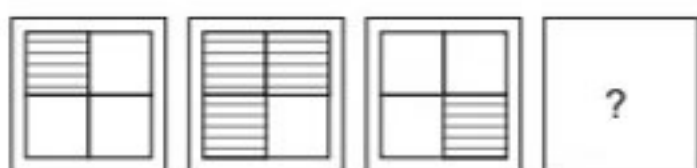
**Answer Figures**



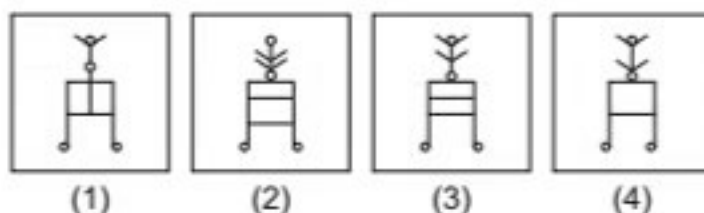
**33.**



**34.**



**35.**



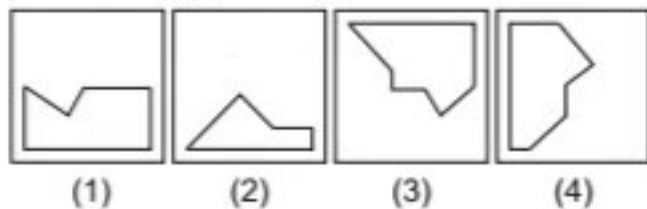
**Part VIII**

**Directions** (Q.Nos. 36-40) In the given questions one part of the geometrical figure (triangle, square, circle) and other one is among the figures (1), (2), (3) and (4). Find out the figures which completes the geometrical figure (triangle, square, circle)?

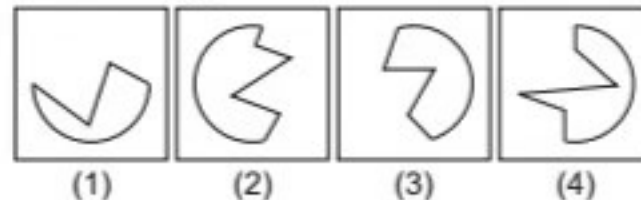
**36. Problem Figure**



**Answer Figures**



**Answer Figures**



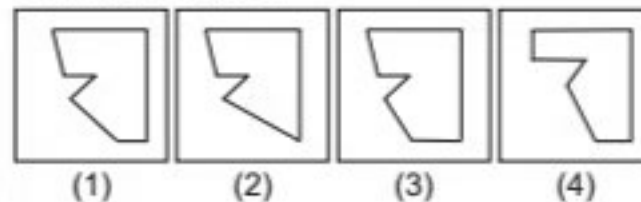
**37. Problem Figure**



**38. Problem Figure**



**Answer Figures**





39. Problem Figures



Answer Figures

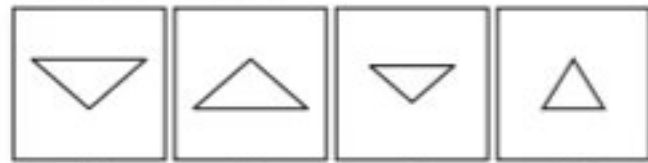


(1) (2) (3) (4)

40. Problem Figure



Answer Figures

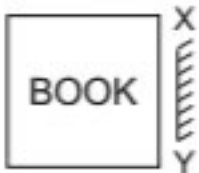


(1) (2) (3) (4)

## Part IX

**Directions** (Q.Nos. 41-45) In the given question there is a problem figure and four answer figures (1), (2), (3) and (4). Find out the correct answer figure when a mirror is held on XY line.

41. Problem Figure



Answer Figures



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

Answer Figures



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

42. Problem Figure

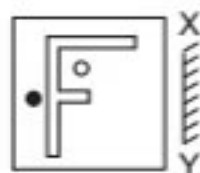


Answer Figures

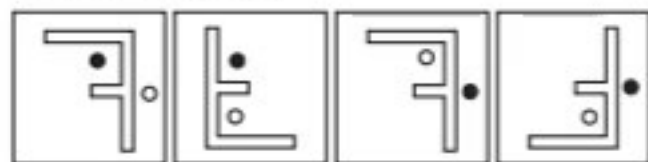


(1) (2) (3) (4)

44. Problem Figure

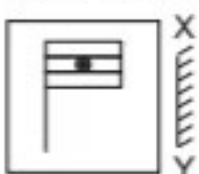


Answer Figures

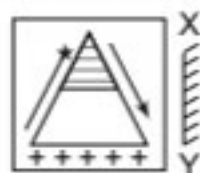


(1) (2) (3) (4)

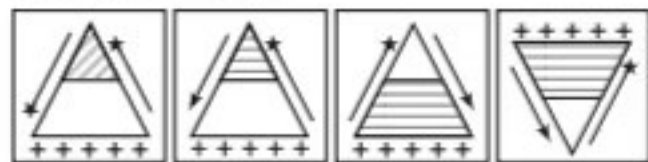
43. Problem Figure



45. Problem Figure



Answer Figures



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

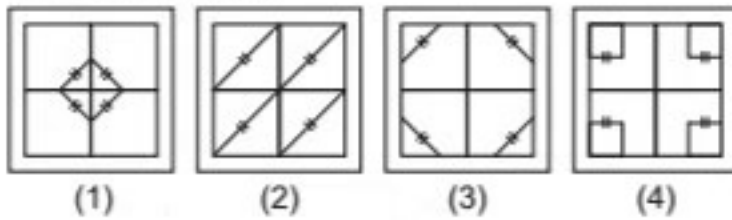
## Part X

**Directions** (Q.Nos. 46-50) In the given questions, there is a problem figure and four answer figures (1), (2), (3) and (4). Find out which answer figure can appear when a piece of paper is folded, punched and open?

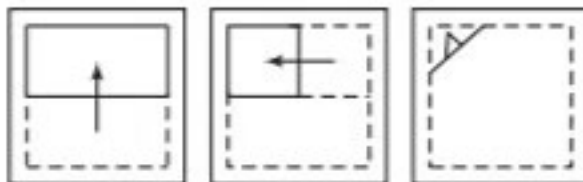
### 46. Problem Figures



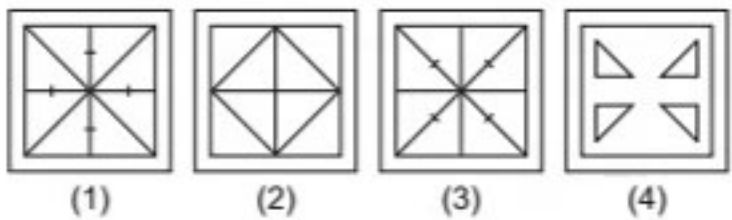
### Answer Figures



### 47. Problem Figures



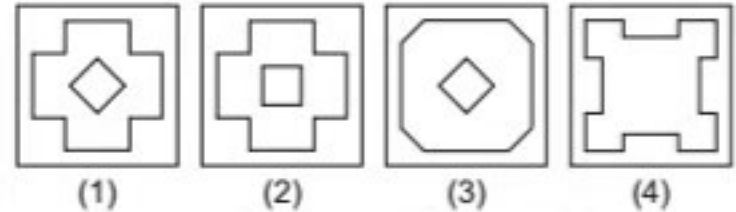
### Answer Figures



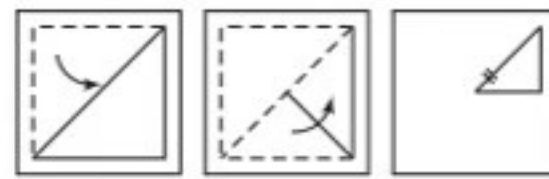
### 48. Problem Figures



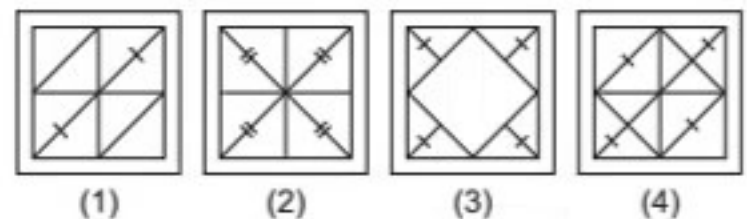
### Answer Figures



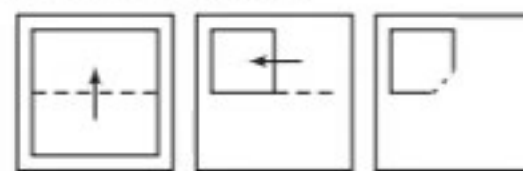
### 49. Problem Figures



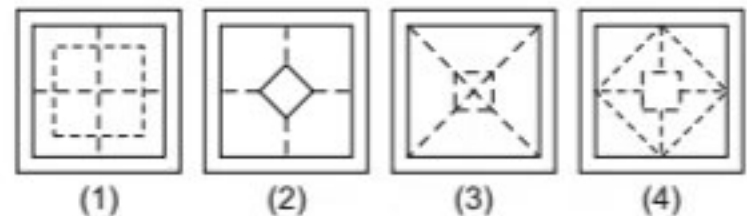
### Answer Figures



### 50. Problem Figures



### Answer Figures



## Section II Arithmetic Test

**Directions** (Q.Nos. 51-75) In the given question, for every question, four probable answer bearing (1), (2), (3) and (4) given. Only one out of these is correct. You have to choose the correct answer.

**51.** Find out the unit's digit in the product of  $(3207 \times 12 \times 17 \times 13)$ .

- (1) 0 (2) 3  
(3) 4 (4) 7

**52.** The difference between the highest and lowest five digits number using 0, 3, 6, 8 and 9 digits (each digit using once time).

- (1) 94941 (2) 61821  
(3) 61740 (4) 67941



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- 53.** Find the HCF of 45, 75 and 165.  
 (1) 15 (2) 45 (3) 75 (4) 2475
- 54.** Find the smallest number divided by 42, 98 and 70.  
 (1) 1470 (2) 1740 (3) 1070 (4) 980
- 55.** The sum of two numbers is 234560. If one number is more than other number by ten thousand ten. Find the greatest number.  
 (1) 112275 (2) 122285  
 (3) 132285 (4) 117280
- 56.**  $17\frac{1}{16}$  decimal equivalent as  
 (1) 17.625 (2) 17.6025  
 (3) 17.0625 (4) 17.0525
- 57.** Which number divided by 5.029 to obtain 50.29?  
 (1) 0.01 (2) 0.1 (3) 1.0 (4) 10.0
- 58.** What is the percentage of 500 g is 4 kg?  
 (1) 12.5 % (2) 25 %  
 (3) 50 % (4) 125 %
- 59.** A man bought a bicycle for ₹ 1200. He sold it for ₹ 1500. Find the profit per cent.  
 (1) 30 (2) 20 (3) 25 (4) 28
- 60.** Which is the rate of interest for ₹ 2500 at simple interest to become ₹ 3300 in 4 yr?  
 (1) 5% (2) 6%  
 (3) 8% (4) 10%
- 61.** Numbers in the next line is

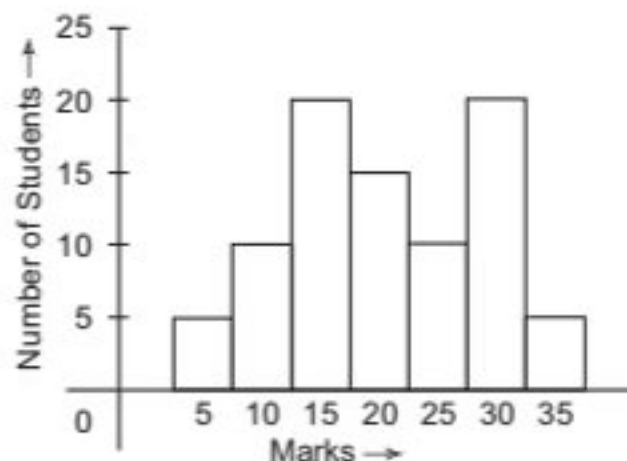
40	45	50
55	60	65
70	75	80
?	?	?

- (1) 75, 80, 85 (2) 85, 90, 95  
 (3) 90, 95, 100 (4) 70, 75, 85
- 62.** Highest two digits prime number is  
 (1) 93 (2) 97 (3) 91 (4) 99
- 63.** If the sum of each row, column and hypotenuse are same then the value of  $x$ ,  $y$ ,  $t$  and  $z$  is

$x$	1	$y$
3	5	$z$
$t$	9	2

- (1) 8, 6, 4, 7 (2) 6, 8, 4, 7  
 (3) 7, 8, 6, 4 (4) 4, 6, 7, 8

- 64.** One-third of a drum is filled with water. If need another 60 L water to filled whole drum, then what is the capacity of 5 drum?  
 (1) 120 L (2) 90 L  
 (3) 60 L (4) 30 L
- 65.** The sum of 7.7, 7.07, 7.007 and 77.0077 is  
 (1) 98.7777 (2) 98.7877  
 (3) 98.7807 (4) 98.7847
- 66.** The perimeter of a square park is 72 m, then the area of the square is  
 (1) 144 sq m (2) 2376 sq m  
 (3) 1296 sq m (4) 324 sq m
- 67.** A train running with 54 km/h. What is the time taken by train to cross the 90 m platform?  
 (1) 10 s (2) 8 s  
 (3) 6 s (4) 5 s
- 68.** A work done by 12 men or 15 women in 20 days. What is the time taken by 4 men and 5 women to complete this work?  
 (1) 15 days (2) 25 days  
 (3) 30 days (4) 40 days
- 69.** A shopkeeper bought a ball pen in ₹ 12 or a packet of 10 ball pens in ₹ 100. Smt Swati bought 24 ball pens. What is the cost price of these ball pens?  
 (1) ₹ 212 (2) ₹ 238  
 (3) ₹ 248 (4) ₹ 258
- 70.** Karan obtains 10 more marks than Bhavana. Isha obtain 10 less marks than Bhavana. What is the marks of Karan if all three obtain total 140 marks?  
 (1) 40 (2) 45  
 (3) 50 (4) 55
- 71.** Study the diagram and find the number of students obtain less than 20 marks.



- (1) 35 (2) 45  
 (3) 65 (4) 85

**72.** What is the decimal equivalent of (₹ 2200 of 4%) of 7.5 %?

- (1) ₹ 13.2                      (2) ₹ 6.6  
(3) ₹ 3.3                      (4) ₹ 26.4

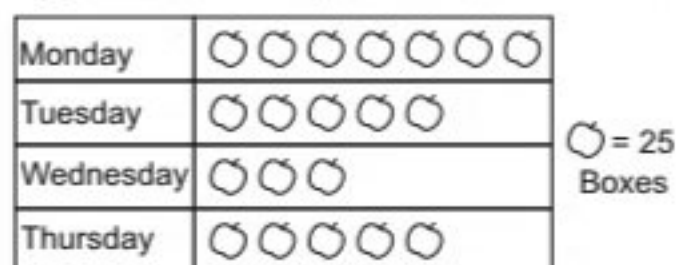
**73.** Find the greatest five digit even number using the 3, 0, 5, 7 and 8 digits.

- (1) 83570                      (2) 85703  
(3) 87530                      (4) 87350

**74.** Find the greatest five digit number using the 9, 6, 3 and 0 digits (any one digit repeated twice).

- (1) 96630  
(2) 96300  
(3) 99630  
(4) 90963

**75.** Study the graph which represents the sell of Apple Boxes in 4 days of a week.



If after 4 days 75 Apple Boxes are left, then the number of Apple Boxes are initially.

- (1) 500  
(2) 550  
(3) 575  
(4) 625

## Section III Language Test (English)

**Directions** (Q.Nos. 76-100) *There are five passage. Each passage has five questions. Read the following passages carefully and answer the questions that follow.*

### Passage I

A rich man went for fishing in a lake. When he was standing on a low bridge, his tin of bait fell into the lake. Leaning over the side of the bridge, he tried to catch the tin and pull it out of the lake. As he did so, his car keys fell out of his pocket and disappeared in the water. The man felt annoyed. He leaned over the bridge to try to see where his keys had gone. As he did so, he lost his balance and fell into the lake. He came out of the lake. He was very sad. He walked back home.

**76.** The man tried to pull out

- (1) his car keys  
(2) the tin of bait  
(3) a fish  
(4) himself

**77.** The man felt annoyed when

- (1) the tin fell in  
(2) he fell in  
(3) the car keys fell in  
(4) he could not catch a fish

**78.** How did the man go to the lake?

- (1) On a horse                      (2) In a boat  
(3) On foot                      (4) In a car

**79.** How did the man come back home?

- (1) On a horse                      (2) In a boat  
(3) On foot                      (4) In a car

**80.** Why did the rich man go on a lake?

- (1) For hunting                      (2) For walking  
(3) For fishing                      (4) For riding

### Passage II

An old man came to Mumbai for the first time. He hired a taxi. The driver was driving very fast. He nearly hit a bus. The old man was terrified. He said, "I don't want to be in a hospital instead of at my son's house. This is the first time I have travelled in a taxi." The driver said, "I understand your fear. This is the first time I am driving a taxi."

**81.** The old man was terrified because

- (1) he was kidnapped  
(2) he forgot the address  
(3) the taxi hit the bus  
(4) the driver was driving dangerously

**82.** The old man was going

- (1) to a hotel  
(2) to Mumbai  
(3) to his son's house  
(4) to a hospital

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83. Who is not mentioned in the passage?

- (1) The taxi driver
- (2) The bus driver
- (3) The old man
- (4) The old man's son

84. We come to know that

- (1) the old man lived in Mumbai

(2) the old man was angry

(3) the driver was a bad man

(4) the driver was not experienced

85. Who came to Mumbai for the first time?

- (1) The Taxi driver
- (2) The bus driver
- (3) An old woman
- (4) An old man

### Passage III

Edison was an American. He used to observe things very closely. He did a lot of experiments. Some of his experiments were silly. But he learnt a lot from them. He invented Gramophone in 1878. He was invited to the White House in Washington. He went there to show his talking machine to the President. Edison made forty war time inventions. He was awarded a medal for his service. His most famous invention was the invention of electric bulb in 1880. He succeeded in making an electric bulb after nearly one thousand and two hundred experiments.

86. Edison was a

- (1) teacher
- (2) leader
- (3) scientist
- (4) soldier

87. Edison learnt a lot from

- (1) his teacher
- (2) the president
- (3) people
- (4) his silly experiments

88. For his service, Edison was

- (1) awarded a medal
- (2) given a lot of money

(3) made the president

(4) made the chief scientist

89. Edison succeeded in making an electric bulb after

- (1) 1000 experiments
- (2) 1200 experiments
- (3) 200 experiments
- (4) 1880 experiments

90. How many inventions made by Edison at the time of world war?

- (1) 52 Inventions
- (2) 42 Inventions
- (3) 40 Inventions
- (4) None of these

### Passage IV

Lencho was a farmer. His house was situated on a low hill. He could see his crops from there. Once his corn was ripe. He needed some rain. It started raining. He became happy. But soon it turned into a storm. His entire crop was destroyed. There was no one to help him. He had firm faith in God. His only hope was the help from God. So, he wrote a letter to God.

91. Lencho could see his crops from

- (1) his house
- (2) a high tree
- (3) a tower
- (4) a high mountain

92. Lencho needed

- (1) some money
- (2) a good house
- (3) some rain
- (4) a storm

93. Who was there to help him?

- (1) His friends
- (2) His neighbours
- (3) His family
- (4) No one

94. What did Lencho do?

- (1) He went to the king
- (2) He waited for help
- (3) He went to God
- (4) He wrote a letter to God

95. What happened when the raining heavily?

- (1) Destroyed the crop
- (2) Flood
- (3) Crops become more green
- (4) None of the above



**Passage V**

In a city, there lived a mother with her little daughter. One day they went to a toy shop. The girl saw a beautiful blue ball. The mother bought the ball for the girl. The girl was very happy. One day the girl was playing with the ball in the courtyard. The ball bounced very high and fell into the window of the neighbours. The ball hit the flower vase which was very costly. It was broken into pieces. The woman in that house shouted and the little girl was frightened.

**96.** How many persons are there in the story?

- (1) One
- (2) Two
- (3) Three
- (4) Many

**97.** What did the girl want?

- (1) A beautiful doll
- (2) A big toy
- (3) A gift
- (4) A blue ball

**98.** What was broken into pieces?

- (1) The ball
- (2) the window
- (3) The flower vase
- (4) the glass

**99.** The girl was frightened because

- (1) she lost the ball
- (2) the woman shouted
- (3) her mother was angry
- (4) she was beaten

**100.** Where was the little girl live?

- (1) At a town
- (2) In a city
- (3) At a village
- (4) In other country