

NMMS STUDY PLAN - 2023 - 24

TAMILNADU STATE LEVEL MOCK TEST - 1 (MAT) - EM

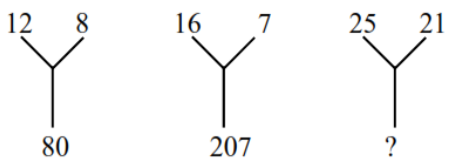
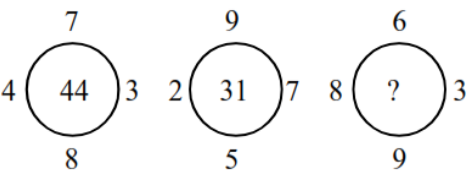
Direction: (Questions 1 to 7)

In each question, the numbers/letters are arranged based on some pattern or principle. Choose the correct answer for the term marked by the symbol (?):

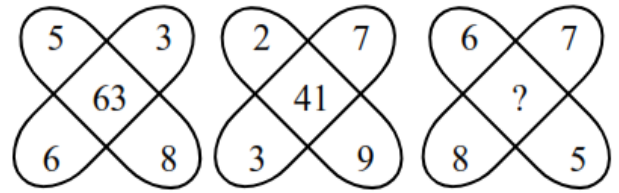
1. 2, 9, 16, 27, 38, ?, 68
(1) 49 (2) 51 (3) 53 (4) 45
2. 4, 9, 25, 49, ?
(1) 81 (2) 121 (3) 64 (4) 100
3. 2, 17, 5, 12, 9, 8, 14, ?
(1) 5 (2) 15 (3) 13 (4) 22
4. 7, 23, 49, 149, ?
(1) 305 (2) 301 (3) 249 (4) 204
5. 1, 4, 10, 22, 46, ?
(1) 64 (2) 86 (3) 94 (4) 122
6. AD, EH, IL, ?, QT
(1) NQ (2) MO (3) MP (4) OR
7. qrp _ q _ ppqr _ p _ rpp
(1) qrqq (2) rppq (3) prpq (4) rrpq

Direction: (Question No: 8 - 12)

In each of the following figures, numbers are written according to some patterns. One number is missing. Find the missing number that replaces the question mark (?).

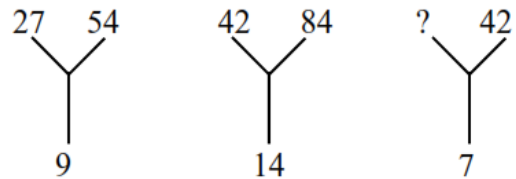
8. 
(1) 184 (2) 210 (3) 241 (4) 425
9. 
(1) 18 (2) 24 (3) 30 (4) 48

10.



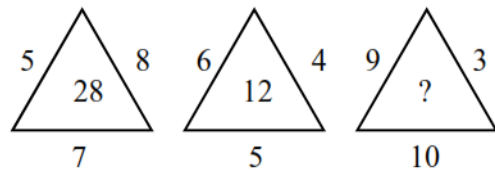
- (1) 26 (2) 82 (3) 83 (4) 86

11.



- (1) 12 (2) 21 (3) 24 (4) 35

12.



- (1) 18 (2) 27 (3) 32 (4) 54

Direction: (Question No.: 13 - 16)

Each question consists of four groups. One group is different from the other three in some way. Find out the different group.

13. (1) 962 (2) 730 (3) 528 (4) 362
14. (1) 1025 (2) 7225 (3) 5625 (4) 11025
15. (1) Hepatitis (2) Measles
(3) Polio (4) Typhoid
16. (1) Football (2) Cricket
(3) Hockey (4) Badminton

Direction: (Question No.: 17 - 21)

In the following questions, there are three words / Numbers. The first two words / Numbers to the left of (::) are related in some way. The same relationship holds between the third

word / Number to the right of the sign (::) and of the responses (1), (2), (3) or (4). Identify the correct related word / Number.

17. Boy : Man :: Girl : ?
 (1) Sister (2) Women
 (3) Father (4) Woman
18. Botany : Plants :: Entomology : ?
 (1) Snakes (2) Elephants
 (3) Insects (4) Germs
19. Pulp : Paper :: Hemp : ?
 (1) Basket (2) Yarn
 (3) Rope (4) Cotton
20. Hot : Oven :: Cold : ?
 (1) Ice Cream (2) Air Conditioner
 (3) Snow (4) Refrigerator
21. 3 : 39 :: 9 : ?
 (1) 719 (2) 819 (3) 919 (4) 517
22. If H = 11; P = 19; TO = 41, then how can LED be coded?
 (1) 21 (2) 26
 (3) 29 (4) 30
23. In a coding system, COW is coded as A15X and DAM is coded as B1N, then how can PUT be coded?
 (1) N21V (2) O21U
 (3) N21U (4) N21W
24. In a code language, D = 4 and DEAR = 7, then in the same language, how will you write the word HOTEL?
 (1) 12 (2) 13 (3) 15 (4) 14
25. If BEAT is coded as YVZG, then how can MILD be coded?
 (1) NROW (2) NOWR
 (3) ONWR (4) ONRW
26. If 'TEN' is coded as 879, 'FIVE' is coded as 1567, 'FOUR' is coded as 1234 then FURNITURE will be coded as _____.

- (1) 134953847 (2) 134598347
 (3) 134958347 (4) 134958437
27. In a certain code language, '256' means 'Red colored Chalk', '529' means 'Green colored Chalk' and '254' means 'White colored Chalk'. In that language, which digit means 'White' in that code?
 (1) 2 (2) 4 (3) 5 (4) 8
28. In a certain code language,
 (a) 'rim tim bo' means 'Sun is Hot'.
 (b) 'sim jar tim' means 'Moon is Cool'
 (c) 'jar bo lim' means 'Sun and Moon'.
 In that language, which word written for 'Cool'?
 (1) lim (2) jar (3) tim (4) sim
29. If Air is called as Water, Water is called as Sky, Sky is called as Rain and Rain is called as Dust. Where does fish live in?
 (1) Water (2) Dust (3) Sky (4) Air
30. A book always has _____.
 (1) Pictures (2) Pages
 (3) Story (4) Chapters
31. Rearrange the given letters to form a meaningful word which is similar in meaning to one of the word given in the alternatives.
 PRSDITU
 (1) deny (2) refuse
 (3) break (4) join
32. Which word is formed by using the letters of the word "IMMEDIATELY".
 (1) LIMITED (2) DICTATE
 (3) DIAMETER (4) DIALOGUE
33. If only the half of the English alphabet is reversed, how many letters will be there between K and R?
 (1) 6 (2) 10 (3) 14 (4) 16
34. The unit digit of $(92452)^{7823}$ is _____.
 (1) 4 (2) 8 (3) 2 (4) 6

35. Arrange the given words in sequence in which they occur in the dictionary and choose the correct sequence.

1) Book 2) Bandit 3) Boisterous

4) Baffle 5) Bright

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

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

Direction: (Question No. 36 - 40)

Six girls are sitting in the round table facing the center at equal distance.

- a) E is sitting between A and C
- b) C is to the right of E
- c) B is not sitting to the right of D
- d) F is opposite to A

36. Who is sitting opposite to D?
 (1) B (2) E (3) C (4) F

37. Who is sitting between D and F?
 (1) A (2) E (3) B (4) C

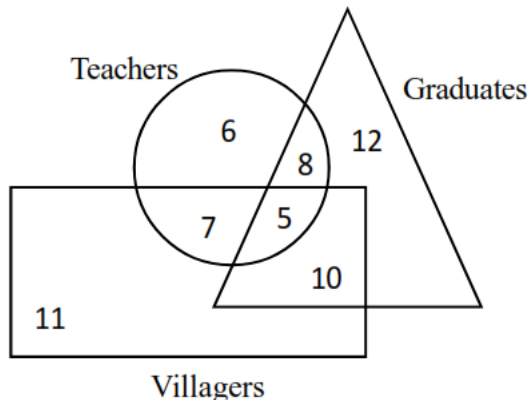
38. Who is sitting second right of F?
 (1) B (2) C (3) A (4) D

39. Who are the neighbor of D?
 (1) B and F (2) A and F
 (3) D and C (4) B and A

40. The angle between B and F?
 (1) 30° (2) 60° (3) 120° (4) 180°

Direction: (Question No. 41 to 45)

The following questions are based on the intersecting figures. Each figure represents a group.



41. Find the total number of graduate teachers from the given four alternatives:

(1) 12 (2) 13 (3) 20 (4) 15

42. Find the total number of graduates who are also villagers:

(1) 21 (2) 12 (3) 15 (4) 22

43. From the given four alternatives, find the number of graduate teachers who are also villagers:

(1) 7 (2) 5 (3) 8 (4) 10

44. Find the total number of graduates from the given four alternatives:

(1) 35 (2) 30 (3) 22 (4) 13

45. Find the total number of teachers from the given four alternatives:

(1) 13 (2) 14 (3) 23 (4) 26

46. If + means minus, - means multiplied by, ÷ means plus, × means divided by find the value of $(2 - 4 \times 8) - 0 - 5 = ?$

(1) -35 (2) 30 (3) 1 (4) 0

47. Find out which numbers / signs should be interchanged to get the correct equation among given alternatives.

$$12 + 6 = 8 \div 4 \times 3$$

- (1) + and = (2) = and ×
- (3) + and ÷ (4) 6 and 3

Direction: (Question Number 48 - 49)

Choose and substitute the correct set of signs in place of * sequentially selecting from the given alternatives to make the equation meaningful.

48. $14 * 4 * 2 * 7$

- (1) ×, ÷, = (2) ÷, ×, =
- (3) +, =, ÷ (4) +, =, ×

49. $20 * 12 * 4 * 8$

- (1) +, =, × (2) =, ÷, ×
- (3) =, ÷, - (4) -, =, +

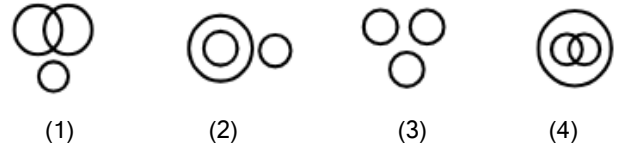
50. Pointing to a Photograph a man said, "I have no brother or sister but that man's father is my father's son." Whose photograph's, was it?
 (1) His own (2) His son's
 (3) His father's (4) His nephew's
51. Prem is Rekha's brother and Rekha is daughter of Ananthi. Ananthi is Vasu's wife. What is the relation of Vasu with Prem?
 (1) Father (2) Brother
 (3) Grandfather (4) Uncle
52. I am facing South. I turn right and walk 20 m. Then i turn right again and walk 10 m, then i turn left and walk 10 m and the turning right walk 20 m then i turn right again and walk 60 m. In which direction am I from the starting point?
 (1) North (2) North-West
 (3) East (4) North-East
53. If South - West becomes East and South East becomes North, then North West becomes _____.
 (1) West (2) North-East
 (3) North-West (4) South
54. One day Gokul left home and cycled 10 km Southwards, turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. How many km will he have to cycle to reach his home straight?
 (1) 10 km (2) 15 km
 (3) 25 km (4) 35 km
55. $(2^0 + 3^0) \times 4^0 = ?$
 (1) 2 (2) 3 (3) 4 (4) 0
56. Sixteen girls are standing in a straight line with a distance of 4m between two adjoining girls. What is the distance between the third and the seventh girl?
 (1) 20 m (2) 16 m
 (3) 24 m (4) 12 m

57. How many times does Zero appear in the numbers from 1 to 1000?
 (1) 102 (2) 122 (3) 192 (4) 112

Direction: (Question number 58 - 62)

Identify the diagram that best represents the relationship among classes given below

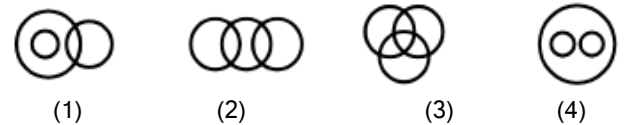
58. Picture, Radio, Television



59. Boys, Parents, Class



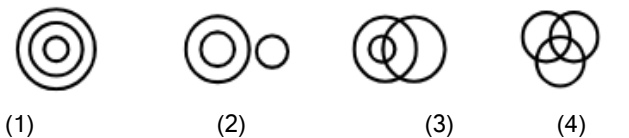
60. Cloth, Sari, Shirt



61. Teacher, Educated, Employed



62. Doctor, Lecturer, Gents



63. How many 7's is there in the following sequence which are immediately preceded by "4" but not immediately followed by "2"?

4 7 2 7 2 3 5 9 7 4 7 5 2 4 7 9 4 7 8 4 7 1

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

64. If Teacher's Day was celebrated On Thursday, on what day will Gandhi Jayanthi be celebrated in the same year?

- (1) Wednesday (2) Saturday
(3) Thursday (4) Tuesday

65. If $8 \times 4 \times 7 = 25$; $7 \times 8 \times 9 = 47$;
 $6 \times 5 \times 4 = 26$, then $2 \times 3 \times 6 = ?$

- (1) 0 (2) 9 (3) 12 (4) 18

66. Assuming that the following statements are true, find the correct conclusion from the four alternatives.

Statement:

All locks are Doors.
All doors are windows.

Conclusion:

- (a) Some doors are windows
(b) All windows are locks
(c) All windows are doors
(d) Some locks are windows

- (1) Only conclusion (a) and (b) follows
(2) Only conclusion (b) and (c) follows
(3) Only conclusion (c) and (d) follows
(4) Both conclusions (a) and (d) follows

67. In a row of trees, a tree is 7th from left end and 14th from the right end. How many trees are there in the row?

- (1) 18 (2) 19 (3) 20 (4) 21

68. Hanshika is older than Muhitha by 15 years. After Six years, the sum of their ages will be 33 years. What is Hanshika's present age?

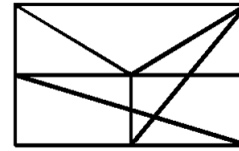
- (1) 18 years (2) 21 years
(3) 24 years (4) 20 years

69. Arrange the words in a meaningful order.

- i) Table ii) Tree iii) Wood
iv) Seed v) Plant

- (1) (iv), (v), (iii), (ii), (i)
(2) (iv), (v), (ii), (iii), (i)
(3) (i), (iii), (ii), (iv), (v)
(4) (i), (ii), (iii), (iv), (v)

70. How many triangles in the diagram?



- (1) 14 (2) 17 (3) 16 (4) 13

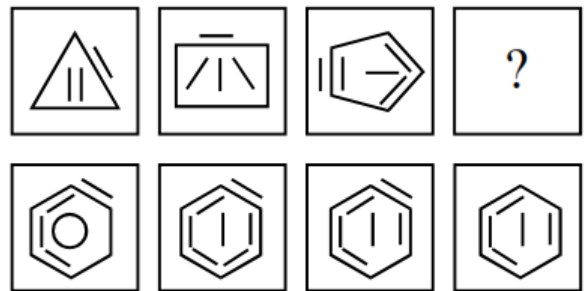
71. If $5 + 8 = 42$, $6 + 2 = 14$, $7 + 4 = 30$, then $9 + 3 = ?$

- (1) 27 (2) 12 (3) 72 (4) 29

Direction: (Question No.: 72 - 76)

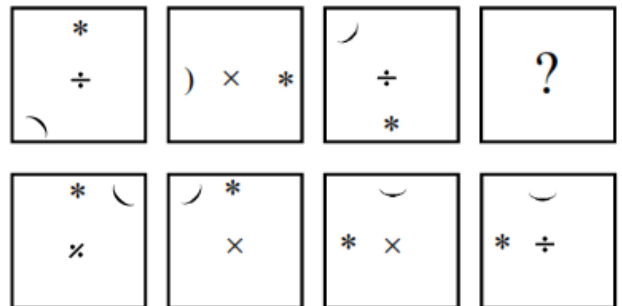
The following questions are based on the figures in series. Pick from the options what will come next.

72.



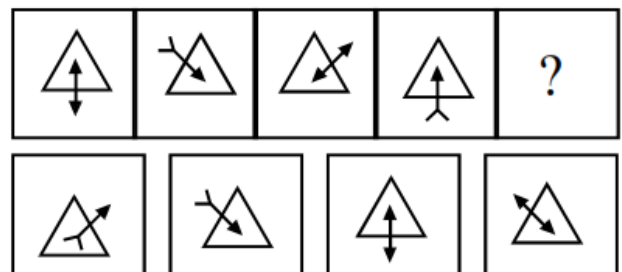
- (1) (2) (3) (4)

73.



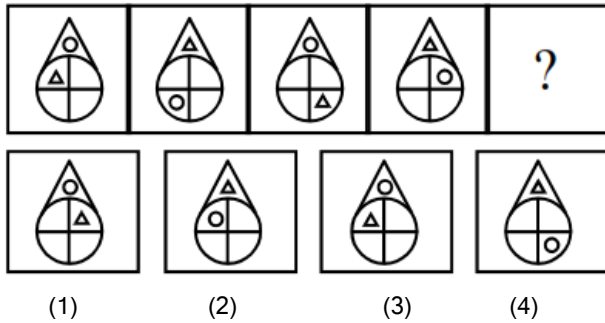
- (1) (2) (3) (4)

74.

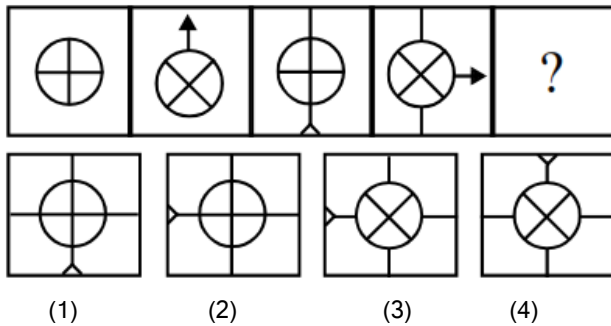


- (1) (2) (3) (4)

75.



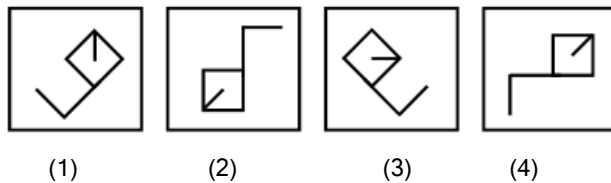
76.



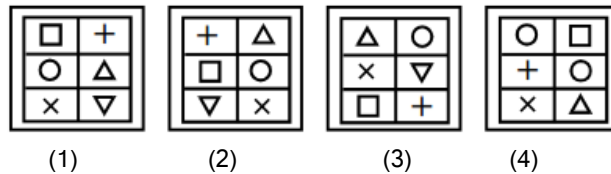
Direction: (question Number 77 - 79)

Find the figure which is not matching with others.

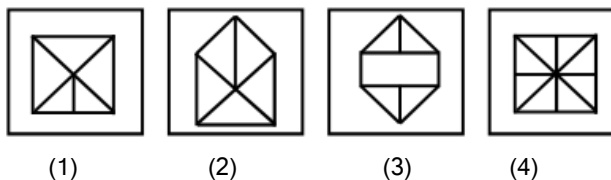
77.



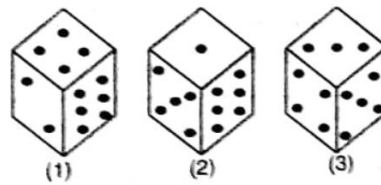
78.



79.



80. Three different positions of a dice are shown in the figure. Observe the figure and answer the following question.

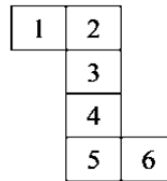


How many dots lie opposite to 2 dots?

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

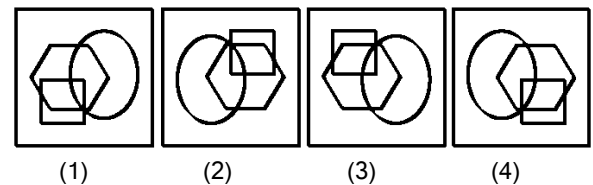
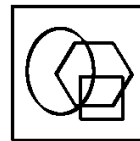
81. The adjacent figure is folded to form a cube. Observe the figure and answer the following question.

Which number will be there on the surface opposite to the surface having letter 3?



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

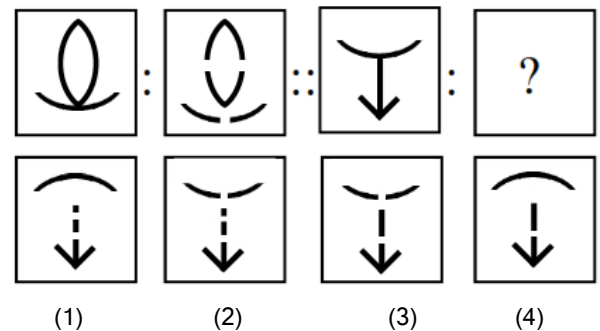
82. Find the water image.



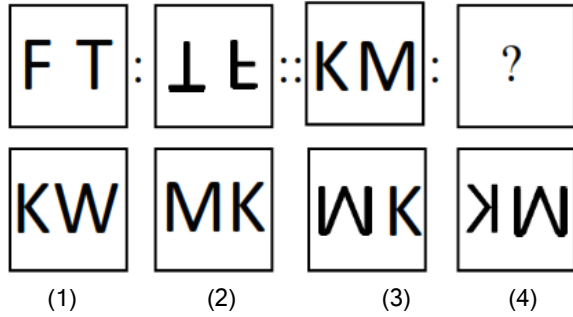
Direction: (Question No: 83 - 85)

In the each of the given figures, there is a relationship between first two figures. The same relation is between the next two figures, but one is missing. Find the missing figure from the given alternatives.

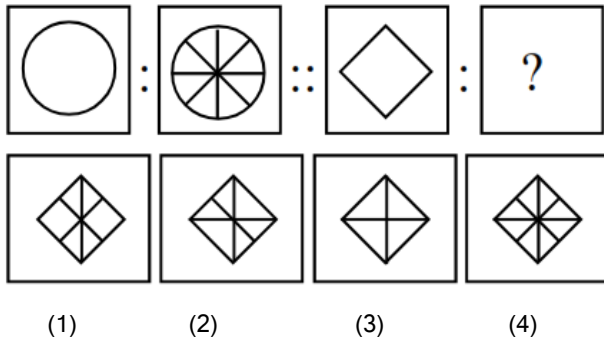
83.



84.



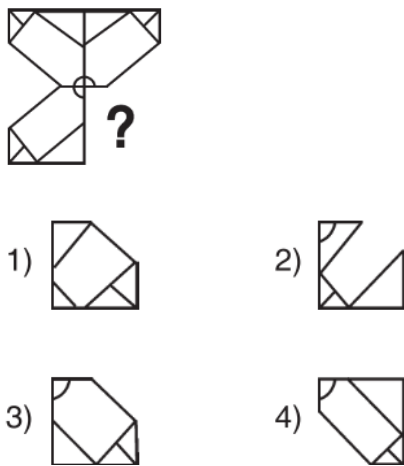
85.



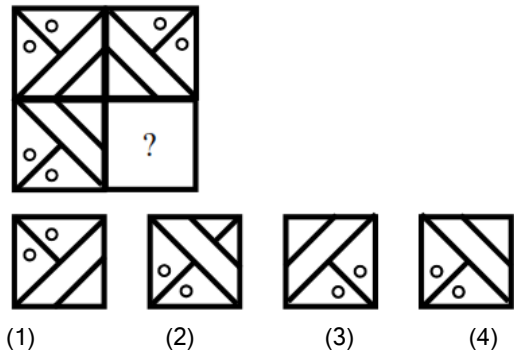
Direction: (Question Number 86 - 87)

In the following figures, a part of the figure is missing. Identify the missing part among the four alternatives given:

86.



87.



88. The water image of following word is

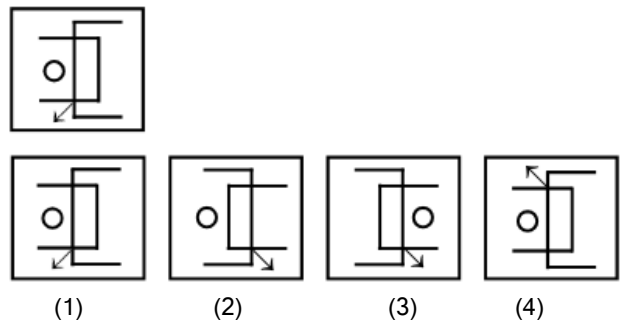
9 6 F S H 5 2

- 1) 2 9 6 F S H 5 2 3) 2 9 6 2 H 5 5
 2) 2 9 6 S H 2 7 4) 2 9 6 2 H 2 5

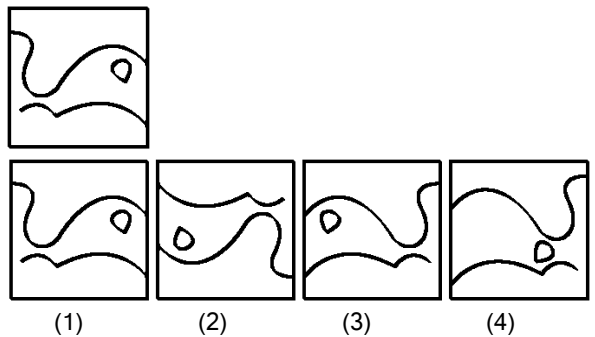
Direction: (Question Number 86 - 87)

Find mirror image of following figures

89.



90.



Our Sincere Thanks to
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