

## 100+ Military Aptitude Questions for AFCAT

1. Ans. C.

As we can see in both the figure that 1 is common face,

So, 6, 2, 3 and 5 are four consecutive side face of 1.

From 6, 2, 3 and 5:

5 will be opposite to 2.

Hence, option C is the correct answer.

2. Ans. C.

Write number in clockwise direction of 1<sup>st</sup> dice and anti-clockwise direction. 1 6 5

1 6 4

So, 4-5 are opposite pairs.

Opposite of 3 is odd so, 2 and 6 can't possible.

Therefore, Opposite pairs are shown below.

3 → 1

2 → 6

5 → 4

Hence, option C is the correct answer.

3. Ans. D.

Here the common face is D so count in clockwise direction so the faces on both dice will be as shown below:

D = F = B

D = C = A

So, D is opposite of E

Since, the opposite cannot be adjacent.



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Hence, option D is the correct answer.

4. Ans. D.

Opposite sides are given as:

A → D

B → F

C → E

So, in option A & option B, C and E are adjacent which is not possible, In option C, B F are adjacent which is not possible.

There is only one possible case, i.e. option D, in which A, C and B are three adjacent faces are shown.

Hence, option D is correct answer.

5. Ans. B.

Here the opposite faces are:

2 → 4

1 → 6

5 → 3

Option (A) is not possible as 3 is not opposed to 5.

Option (B) is also wrong as 2 is not adjacent to 4.

Option (D) is not possible as 1 is not adjacent to 6.

So, option (C) is possible.

Hence, option B is the correct answer.

6. Ans. D.

From the second and third dice, '&' is common in both the dice so the opposite faces are:

@ → #



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< → \* & → !

So, @ is opposite to #.

Hence, option D is the correct answer.

7. Ans. B.

4 and 6 are opposite face.

5 and 1 are opposite face.

2 and 3 are opposite face.

So, 3 will be opposite to 2.

Hence, option B is the correct answer.

8. Ans. B.

The opposite faces of given dice is as below:

B ↔ Z

W ↔ Y

A ↔ X

Here, option B can be formed by folding the given figure.

Hence, option B is the correct answer.

9. Ans. D.

 is opposite to 

 is opposite to 



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is opposite to

Thus cube given in option D cannot be formed.

Hence, option D is the correct answer.

10. Ans. C.

Clearly, there are six blocks in the diagram.

11. Ans. D.

Take the dice 1 and 2. Start writing the symbols from \$ in clockwise direction.

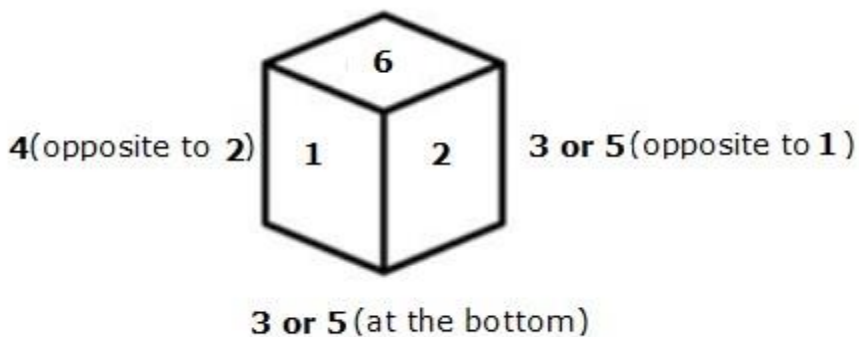
\$ @ #

\$ ^ &

\$ is opposite of %.

Hence, option D is the correct answer.

12. Ans. D.



Hence, option D is the correct answer.

13. Ans. B.

Considering the given dices, Two dots are opposite to five dots.

Six dots are opposite to four dots.



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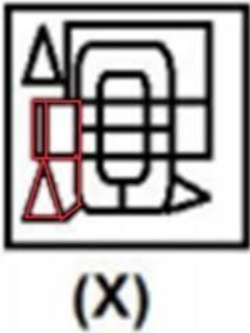
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And one dot is opposite to three dots.

Hence, option B is the correct answer.

14. Ans. A.

After carefully observing the answer figures and question figure given, it is very clear that the answer figure A is embedded in the given question figure(x). It is shown as given below:



Hence, option A is the correct answer.

15. Ans. D.

After carefully observing the question and answer figures given, it is very clear that the question figure given is embedded in the answer figure D. It is shown as given below:



Hence, option D is the correct answer.

16. Ans. B.

Here, the question figure is correctly embedded in the answer figure as shown below:



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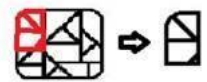
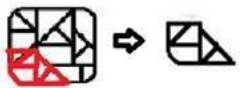
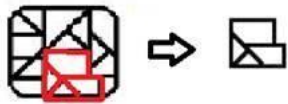
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Hence, option B is the correct answer.

17. Ans. B.

Here the question figure is correctly embedded in the answer figure as shown below:

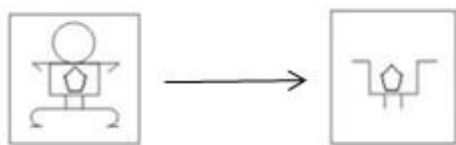


Only option figure (B) is not possible.

Hence, option B is correct answer.

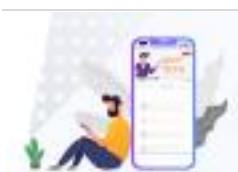
18. Ans. C.

After carefully observing the figures given in the question, it is very clear that the question figure is embedded in answer figure (C). It is shown as given below:



Hence, Option C is the correct response.

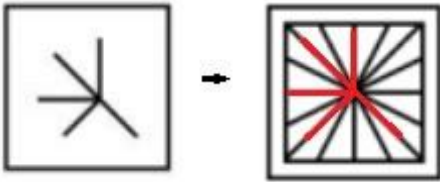
19. Ans. D.



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Here the question figure is correctly embedded in the answer figure as shown below:



Hence, option D is the correct answer.

20. Ans. A.

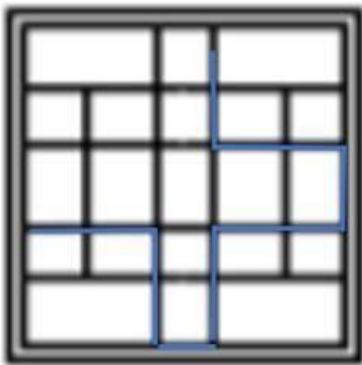
Here the question figure is correctly embedded in the answer figure as shown below:



Hence, option A is the correct answer.

21. Ans. A.

After carefully observing the figures given in the question, it is very clear that the question figure given is embedded in the answer figure(A). It is shown as given below:

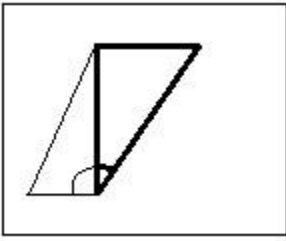


Hence, option A is the correct answer.

22. Ans. B.

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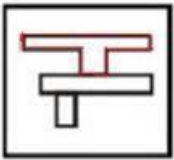
Taking option B,



Hence, option B is the correct answer.

23. Ans. C.

Here the question figure is correctly embedded in the answer figure as shown below:



Hence, option C is the correct answer.

24. Ans. C.

On observing the options we can see that the figure given under option (C) is indeed embedded in the original figure. It has been represented below,



Hence, option C is the correct answer.

25. Ans. C.

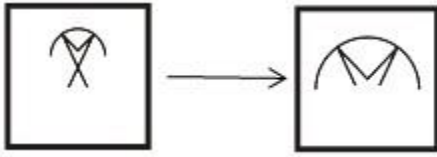
After carefully observing the figures given in the question, it is very clear that the question figure is embedded in the answer figure (C). It is shown as given below:



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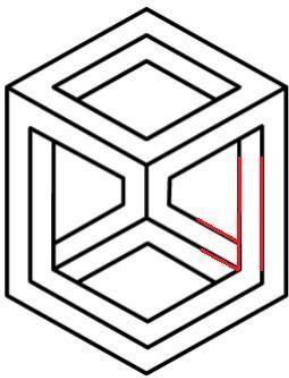




Hence, option C is the correct answer.

26. Ans. D.

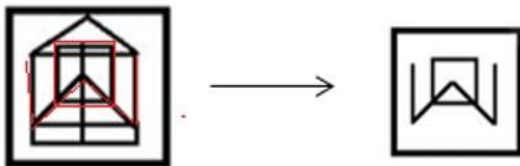
After carefully observing the figures given in the answer figure (D) is embedded in the question figure. It is shown as given below:



Hence, option D is the correct answer.

27. Ans. C.

After carefully observing the figures given in the question, it is very clear that the answer figure(C) is embedded in question figure. It is shown as given below:



Hence, option C is the correct response.

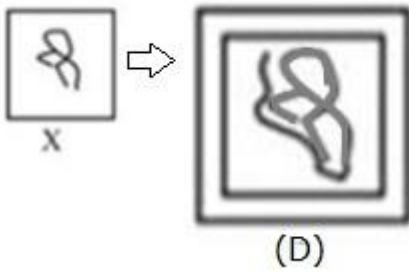
28. Ans. D.

The embedded figure is:



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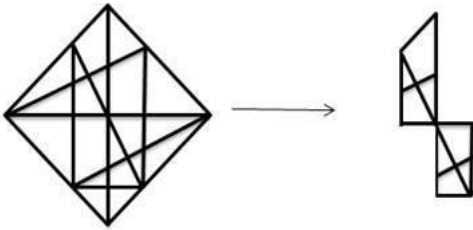
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Hence, option D is the correct answer.

29. Ans. A.

After carefully observing the figures given in the question, it is very clear that the question figure is embedded in answer figure (B). It is shown as given below:



Hence, Option A is the correct answer.

30. Ans. B.

On observing the options we can see that the figure under option (B) is indeed embedded in the original figure. It has been represented below,



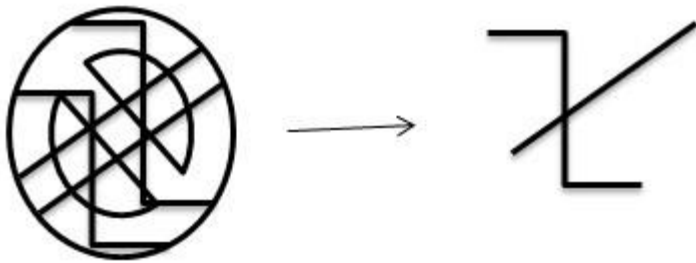
Hence, option B is the correct response.

31. Ans. A.

After carefully observing the figures given in the question, it is very clear that the question figure is embedded in answer figure (A). It is shown as given below:

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Hence, Option A is the correct answer.

32. Ans. C.

We can see that in the given figure all rows and columns contain set of three types of diagram. So In the last row or column, it must contain the set of three. Figure A completes the set of three.

So, figure A is given in the option C.

Hence, option C is the correct answer.

33. Ans. D.

In option A, B and C the symbols are moving in the clockwise direction.

The symbol are in sequence like '★', 'μ', 'pie' and '?' Hence, option D is the correct response.

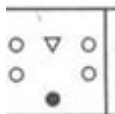
34. Ans. B.

The directions of arrows in figure (1), (3) and (4) are in North east where as the directions of arrows in figure (2) are in North West. Therefore figure (2) is odd from others.

35. Ans. A.

In the subsequent figures the triangle gets inverted and the top circle move down and up alternately. Again, respectively, one, two, three, one... design(s) get(s) shaded.

Therefore,



Hence, option a is correct.



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36. Ans. C.

Darken part moves one step, then three, then five, then seven. Finally nine step and reversed.

Hence option (3) is the correct answer.

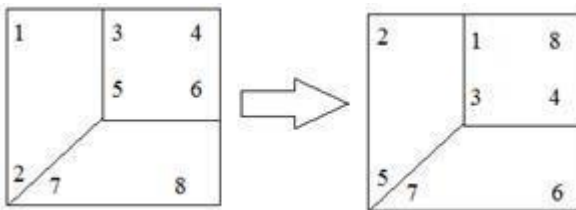
37. Ans. E.

In every next figure, three more diagrams added and old diagram reversed. In second step, first and third design move 180 degree ACW and middle design 180 degree clockwise (CW). Again in third step, all design reversed. In fourth step, first and third design moves 90 degree CW and middle design 90 degree ACW.

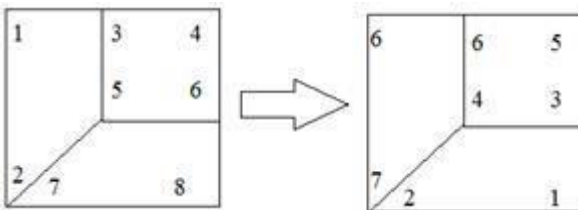
Hence as per the logic given above, Option (5) is the correct option.

38. Ans. B.

Relation between first and second figure:



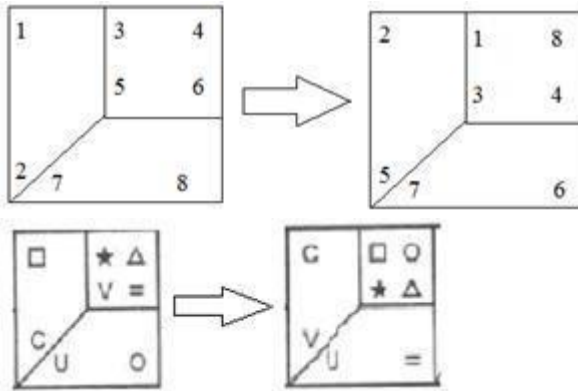
Between second and third figure:



The same relationships occurring alternatively

Therefore between Fifth and answered (sixth) figure will be same as between first and second figure :





39. Ans. D.

Logic- The inner shape enlarges to become the outer shape while the outer shape reduces in size, turns black and becomes the inner shape.

After carefully observing the figures given in the question, it is very clear that the answer figure (D) will be the missing figure.



(4)

Hence, the correct answer is option D.

40. Ans. D.

Except figure 4, in all the three figures there is equal division of parts.

Hence, option D is odd one out.

41. Ans. D.

As per the arrangement of the alphabets given

F - 02 ,14,21,33,40

I - 03,10,22,34,41

R - 57,69,76,88,95

E - 01,13,20,32,44



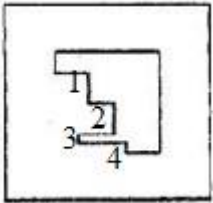
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Hence from the above given four options only option D is correct.

42. Ans. A.

The figure is to be fill with four parts(1, 2, 3 and 4)



If we want to fill it, it must have four parts; therefore answer figure (1) is correct option.

Hence, option A is the correct answer.

43. Ans. C.

Except figure (C), all the figures have a pentagon and a star. Figure (C) has a pentagon, a hexagon and a rhombus.

Hence, option C is the correct answer.

44. Ans. C.

In options A, B and D all the numbers are odd and arrow side is non-dark and in option C all the number are even and two of the arrow side is dark.

Hence, option C is the correct response.

45. Ans. C.

In option (A), (B), (C) and (D) have six arrows in which four is an upward direction and two are the downward direction. But in option (A), (B) and (D) all six arrows are in equal size but in option (C) one of the arrow is in the downward direction is small than its neighbor arrow.

Hence, option C is the correct answer.

46. Ans. B.

In option B, both the triangles are fully blue coloured. Whereas other options have partially blue coloured triangles. So, the correct answer is option B.

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47. Ans. C.

In all the options, two concentric shapes are given. Two arrows are given in all the options. It can be observed that only option C contains three arrow pointers, rest options have combination of either single pointer arrows. Only, option C contains one single pointer arrow and one double pointer arrow.

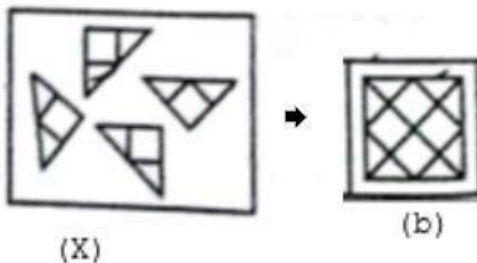
Hence, option C is different from others.

48. Ans. A.

After, careful observation of the pieces given in the figure X. It clear that figure (a) must be formed.

49. Ans. B.

After, careful observation of the pieces given in question figure. It clear that figure (b) must be formed.



Hence, option B is the correct answer.

50. Ans. D.

It is clear that the given answer figures are the net of cubes. Thus, only answer figure (d) will give the figure X when figure (d) will be folded.

Hence, option D is the correct answer.

51. Ans. A.

There is a combination of two series:

First:

$$40 + 3 = 43$$

$$43 + 3 = 46 \text{ Second:}$$

$$37 - 3 = 34$$

$$34 - 3 = \mathbf{31}$$

Hence, option A is the correct answer.

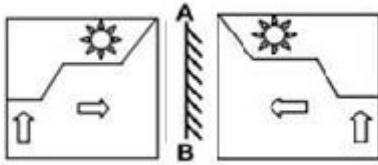


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52. Ans. A.

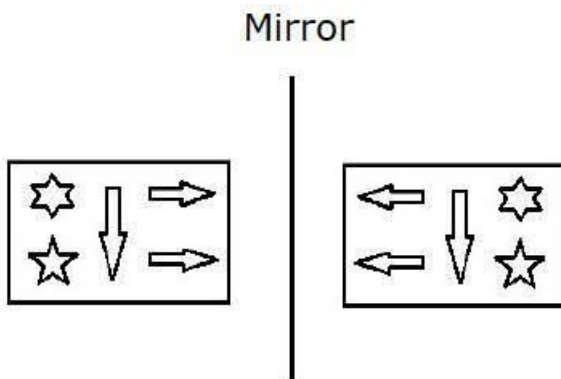
Here, the correct mirror image of the given question figure is as shown below:



Hence, option A is the correct answer.

53. Ans. B.

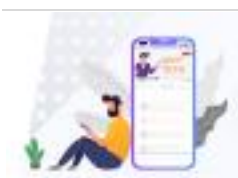
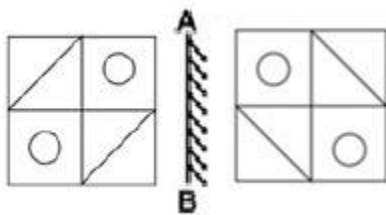
In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.



Hence, option B is the correct answer.

54. Ans. D.

Here, the correct mirror image of the given question figure is as shown below:



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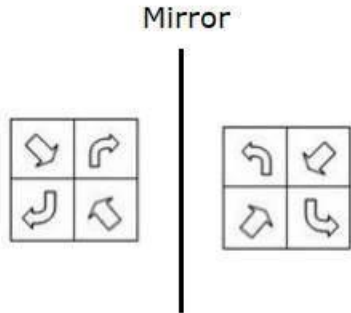
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Hence, option D is the correct answer.

55. Ans. C.

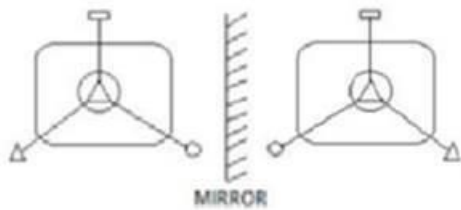
In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.



Hence, option C is the correct answer.

56. Ans. A.

On close observation we find that the correct mirror image will be:



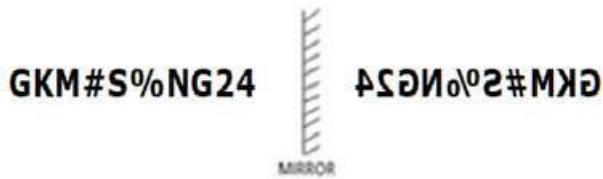
Hence, option A is the correct answer.

57. Ans. D.

On close observation we find that the correct mirror image will be:

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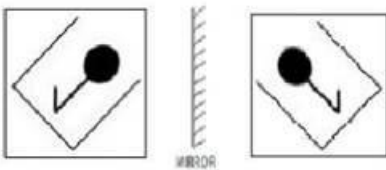
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Hence, option D is the correct answer.

58. Ans. B.

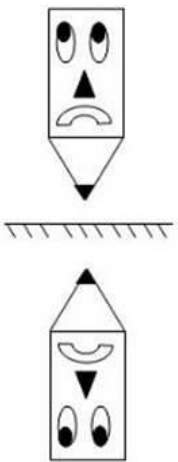
On close observation we find that the correct mirror image will be:



Hence, option B is the correct answer.

59. Ans. A.

In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.



Hence, option A is the correct answer.

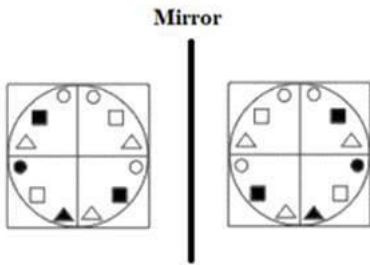


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60. Ans. A.

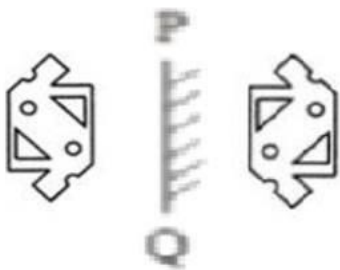
In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.



Hence, option A is the correct answer.

61. Ans. A.

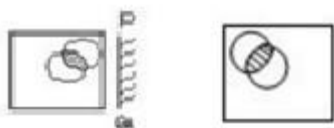
On close observation, we find that the correct mirror image will be:



Hence, option A is the correct answer.

62. Ans. D.

The correct mirror image of the question is:



Hence, option D is the correct answer.

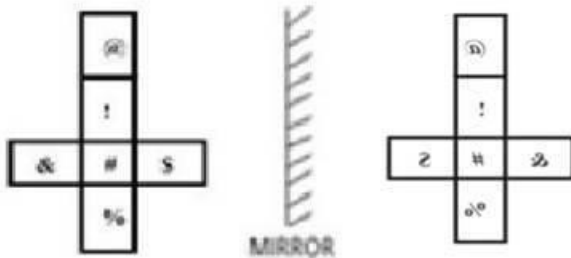


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63. Ans. A.

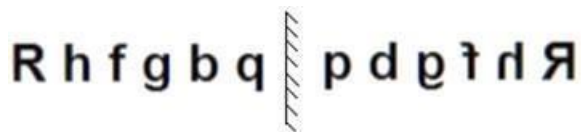
On close observation we find that the correct mirror image will be:



Hence, option A is the correct answer.

64. Ans. D.

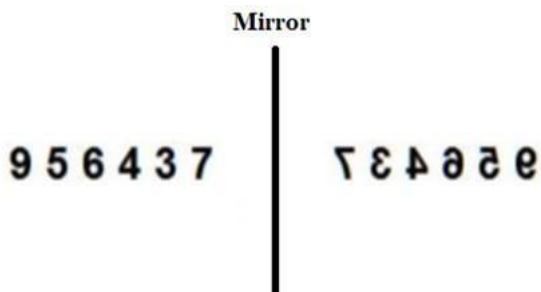
The mirror image is:



Hence, option D is the correct answer.

65. Ans. A.

In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.



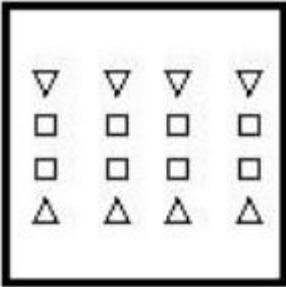
Hence, option A is the correct answer.

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66. Ans. D.

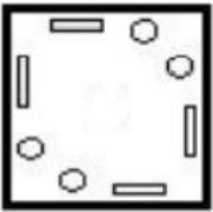
As given in the figure, we need to fold it in a art-paper folding manner and Option D would appear when unfolded.



Hence, option D is the correct answer.

67. Ans. D.

As given in the figure, we need to fold it in a tissue-paper folding manner and Option D would appear when unfolded.



Hence, option D is the correct answer.

68. Ans. D.

As given in the figure, we need to fold it in a book folding manner and Option D would appear when unfolded.



Hence, option D is the correct answer.

69. Ans. B.



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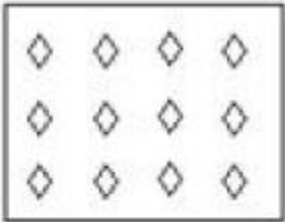
As given in the figure, we need to fold it in a book folding manner and Option B would appear when unfolded.



Hence, option B is the correct answer.

70. Ans. A.

As given in the figure, we need to fold it in a page folding manner and Option A would appear when unfolded.



Hence, option A is the correct answer.

71. Ans. C.

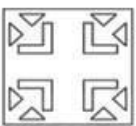
As given in the figure, we need to fold it in a tissue paper folding manner and when it is unfolded, then option C would appear.



Hence, Option C is the correct answer.

72. Ans. D.

As given in the figure, we need to fold it in a book folding manner and Option D would appear when unfolded.



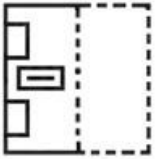
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Hence, option D is the correct answer.

73. Ans. B.

After carefully observing the figures given in the question, it is very clear that the answer figure (B) would appear when the transparent sheet is folded at the dotted line.

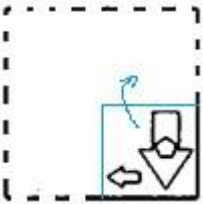


Hence, option B is the correct answer.

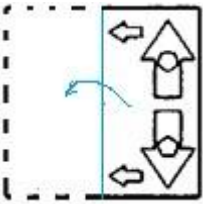
74. Ans. C.

The step by step unfolding process is shown below: -

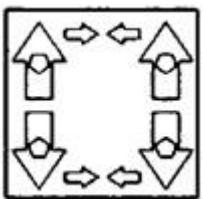
Step 1



Step 2



Step 3 (the unfolded paper)

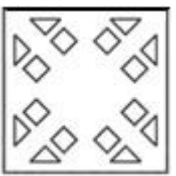
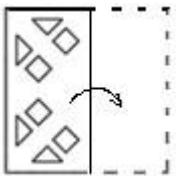
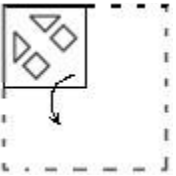
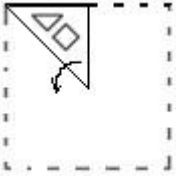


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Hence, option C is the correct answer. 75. Ans. A.

After unfolding the paper will look like-

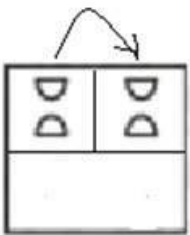


Hence, option A is the correct answer.

76. Ans. D.

When the paper is unfolded it will appear as:

Step 1:



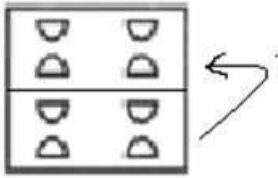
Step 2:



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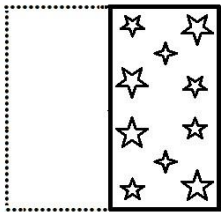


Hence, option D is the correct answer.

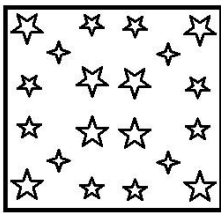
77. Ans. D.

When the paper is unfolded it will appear as:

Step -1



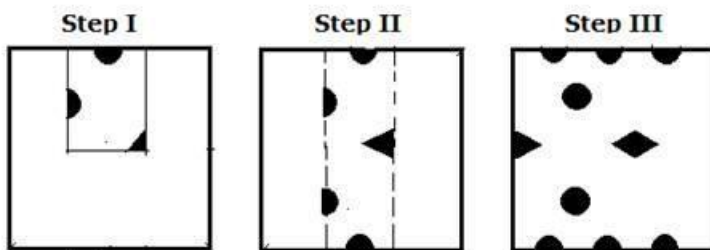
Step -2



Hence, option D is the correct answer.

78. Ans. A.

After unfolding the paper.



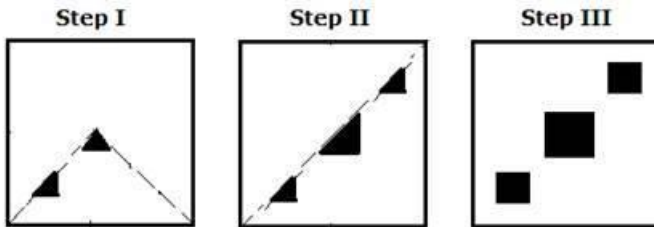
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Hence, option A is the correct answer.

79. Ans. C.

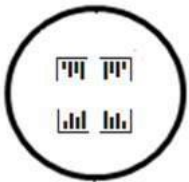
After unfolding the paper.



Hence, option C is the correct answer.

80. Ans. D.

As given in the figure, we need to fold it in a book folding manner and Option D would appear when unfolded.



Hence, option D is the correct answer.

81. Ans. B.

As given in the figure, we need to fold it in a book folding manner and Option B would appear when unfolded.



Hence, option B is the correct answer.

82. Ans. B.

As given in the figure, we need to fold it in a book folding manner and option (B) would appear when unfolded.

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Step-1



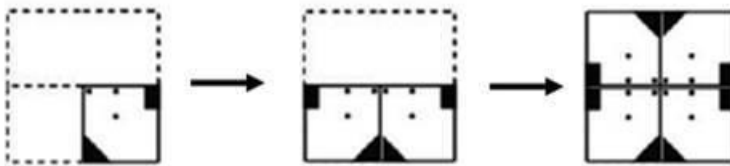
Step-2



Hence, option B is the correct answer.

83. Ans. C.

When the piece of paper is unfolded it will appear as shown below:

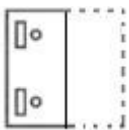


Hence, option C is the correct answer.

84. Ans. D.

When the paper is unfolded it will appear as:

1<sup>st</sup> step –

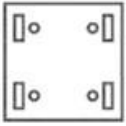


2<sup>nd</sup> Step –



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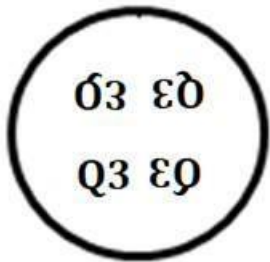
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Hence, option D is the correct answer.

85. Ans. C.

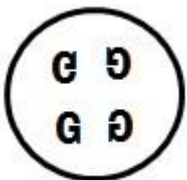
When the piece of paper is unfolded it will appear as shown below:



Hence, option C is the correct answer.

86. Ans. A.

As given in the figure, we need to fold it in a book folding manner and Option A would appear when unfolded.



Hence, option A is the correct answer.

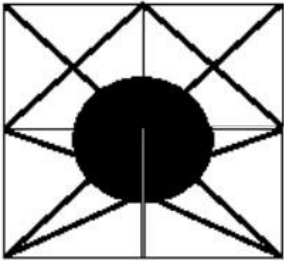
87. Ans. A.

After carefully observing the figures given in the question, it is very clear that the answer figure(A) will be the missing figure.



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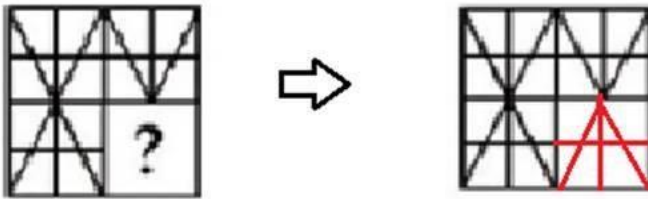
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Hence, option A is the correct answer.

88. Ans. B.

As shown in figure:



Hence, option B is correct answer.

89. Ans. D.

After observing the given diagram carefully, option figure D will complete the given figure.



Hence, option D is the correct answer.

90. Ans. D.

Here, the answer figure that will complete the question figure will be as shown below:



Hence, option D is the correct answer.

91. Ans. D.

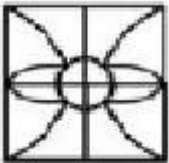
The complete figure will look like:



Hence, option D is the correct answer.

92. Ans. A.

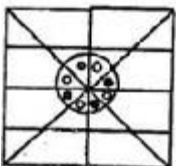
Here, the answer figure (A) will complete the pattern in the question figure:



Hence, option A is the correct answer.

93. Ans. A.

After carefully observing the given figure and answer figures, we can say that option (A) will complete the figure.



Hence, option A is the correct answer.

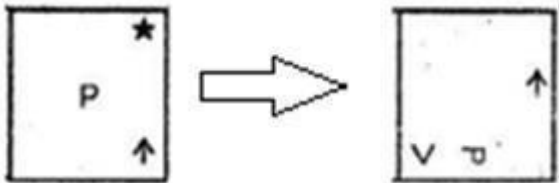


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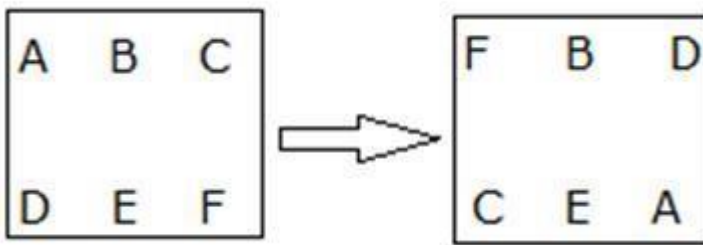
94. Ans. E.

The design "P" descends stepwise and ascends in one step after being rotated through 90° clockwise. The arrow moves half step in anticlockwise direction and rotates through 90° anticlockwise after every two figures. The third design moves diagonally downward and upward respectively and is replaced with a new design in each subsequent figure.

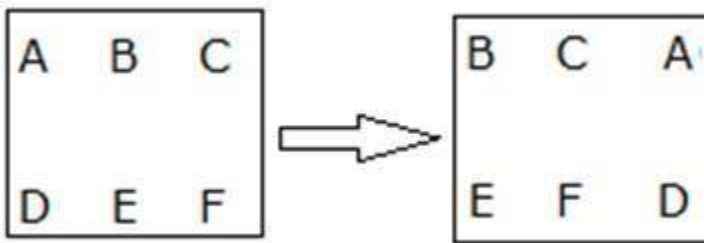


95. Ans. D.

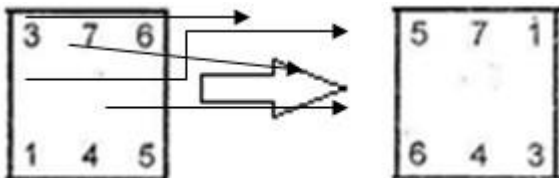
Pattern of changes between 1<sup>st</sup> and 2<sup>nd</sup> question figures are as follows:



Now the pattern of changes between 2<sup>nd</sup> and 3<sup>rd</sup> question figures are as follows:



These two steps are continued alternatively in all subsequent figure. Hence the changes between questions figure (5) and answer figure (4) will be same as between question figure (1) to (2), Hence option (4) is correct.



96. Ans. C.



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After carefully observing the figures given in the question, it is very clear that the answer figure(D) will be the next figure.

Ω	≤A
∩	±

Logic:

1	2
4	3

moving order of Ω : 2, 3, 4, 1

moving order of ≤A : 3, 4, 1, 2 moving order of ∩ : 1, 2, 3, 4 moving

order of ± : 4, 1, 2, 3

∩ and ∩ occurs alternately.

± and ± occurs alternately.

Hence, option C is the correct answer.

97. Ans. D.

After carefully observing the figures given in the question, it is very clear that the answer figure(D) will be the next figure.

Logic:

1	2	3
---	---	---

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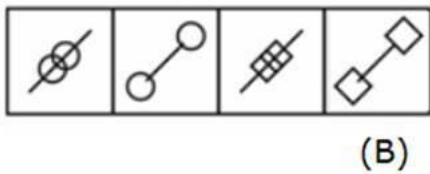


order of moving  $\Omega$  : 1, 2, 1, 2 order of moving  $\textcircled{R}$  : 3,1,3,1 moving order of inequality symbols:  $\geq, \leq, <, >$  so rest place will be filled by  $>$ .

Hence, option D is the correct answer.

98. Ans. B.

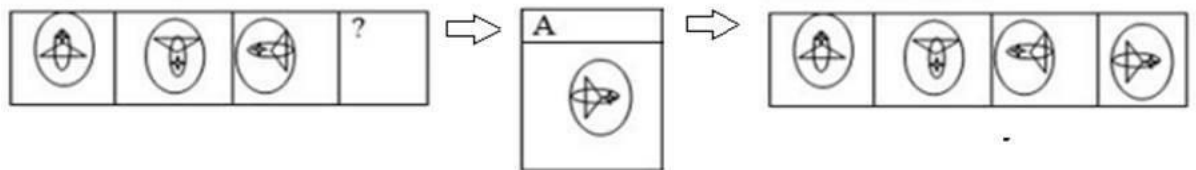
As per the observation, the joined elements in the first figure get separated in the second figure, thus a same pattern is followed which is shown in figure (B).



Hence, the correct option is B.

99. Ans. A.

The series is:



So, the correct option is A.

100. Ans. B.

After carefully observing the figures given in the question, it is very clear that the answer figure(b) will be the next figure.



Logic:

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moving order(path: corner to mid point of side to corner and so on) of black bubble in clockwise is: +1,+2,+3,.....

moving order(path: mid point of side to corner and so on) of star in anticlockwise is: +1,+2,+3,.....

Hence, option B is the correct answer.

101. Ans. C.

In the given series of figures, there are two series, one at the odd position and one at the even position.'

Now if we take a look at the odd position figures



We can see that the circles in the downward positions are decreasing in number and the squares in the upward direction are increasing in the number

Similarly

At the even position figures



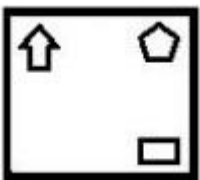
Here also, the circles are decreasing in number and squares are increasing in number.

So the answer should be the figure with zero circles and 6 squares, which leaves us with option C.

Hence, option C is the correct answer.

102. Ans. A.

After carefully observing the figures given in the question, it is very clear that the answer figure(a) will be the next figure.



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Logic:

arrow shape is rotating 90 degree in each step and it remains placed at the same position i.e. top-left corner. so, option C and D get mitigated with this logic itself.

Now we have to chose answer from options A and B.

A new shape O is placed in top-right corner in second step and it moves one place clockwise.

in third step, we get 3-sided geometrical figure and it moves one place clockwise.

and in fourth step, we get 4-sided geometrical figure and it moves one place clockwise.

so, in fifth step, we get 5-sided geometrical figure and it moves one place clockwise.

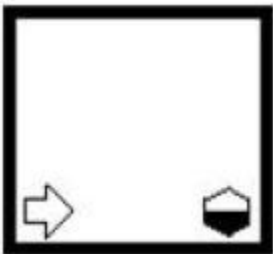
Hence, option A is the correct answer.

103. Ans. C.

The direction of arrow is moving in anti clockwise direction and arrow itself is moving in clockwise direction.

Star in the middle is present alternately in the figure.

Similarly, hexagon at adjacent sides is moving in anti clockwise direction.



Hence, option C is the correct answer.

104. Ans. C.

After carefully observing the figures given in the question, it is very clear that the answer figure(c) will be the next figure.

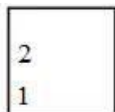
O is moving one place clockwise in each step.

Arrow shape is moving at place 1 and 2 alternately. Also it rotates 90 degree right and 90 degree left alternately.



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Hence, Option C is the correct answer.

105. Ans. D.

Here, the second is the mirror image of the 1<sup>st</sup> one. So, mirror image of 3<sup>rd</sup> one will be option D



Hence, option D is the correct answer.



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