

Disimilar Pair

This is a new type of questions on Abstract reasoning. In such types of questions there pair of figures depicting a relationship between the pair. The candidate is required to identify the logic given in each of the pair and then answer the question as directed. Depending upon the level of slot and type of questions coming in CET, the toughness of such questions varies. But let us first study the simple series problems of different types.

Notes:

Exercise

1. 1. $i \quad 1 \quad ii \quad 1 \quad 2 \quad ii \quad i \quad 3 \quad ii \quad i \quad 4 \quad ii \quad 1 \quad 5 \quad ii$ 2. $i \quad 1 \quad ii \quad i \quad 2 \quad ii \quad i \quad 3 \quad ii \quad i \quad 4 \quad ii \quad 1 \quad 5 \quad ii$ $i \quad 1 \quad ii \quad i \quad 2 \quad ii \quad i \quad 3 \quad ii \quad 1 \quad 4 \quad ii \quad 1 \quad 5 \quad ii$ $i \quad 1 \quad ii \quad i \quad 2 \quad ii \quad i \quad 3 \quad ii \quad 1 \quad 4 \quad ii \quad 1 \quad 5 \quad ii$

Directions: In each of the following questions in four out of the five figures, element I is related to element II in the same particular way. Find out the figure in which element I is not so related to element II.



Answers with Explanations

1. 4; The whole figure rotates by 45° CW while the closed-ended element reverses its direction.

2. 3; The elements move one side CW. The elements inside move outside while those outside move inside. The no. of inside elements remains unchanged.

3. 4; The figure rotates by 45° ACW and gets inverted. The arrow reverses its direction.

4. 4; The figure rotates by 135° ACW while one of the end elements get inverted.

5. 3: The elements shift half a quadrant, one quadrant and one-and-a-half quadrants ACW and two of them except the pin reverse their directions.

6. 1; The elements move one step downward diagonally and rotate by 90° CW. The smaller elements get enlarged while the bigger get reduced in size.

7. 2; Elements interchange diagonally. The upper-left rotates by 90° ACW while lower-right rotates by 90° CW. The other two rotate by 180°.

8. 5; Elements rotate by 135° CW and change their side.

9. 3; The corner elements rotate by 90° CW and shift one side ACW while the central element rotates by 90° ACW'.

10. 3; The whole figure rotates by 135° CW.

11. 5; The whole figure rotates by 90° CW and gets divided into two parts. The arrow further rotates by 1800 and line segment attached to pin changes its direction.

12. 2; The whole figure rotates by 135° CW.

13. 5; Three pairs of elements, position 3 and 4, 2 and 8, and 6 and 7 interchange their positions among themselves. Element at position 1 replaces 5, 5 goes to 9 and 9 becomes 1.

14. 2; The shaded petal rotates by 45° CW while the arc rotates by 135° ACW. The unshaded petal rotate by 45° CW and 135° CW respectively.

15. 1; From CW end the elements move half, one, one and half and two sides ACW respectively.

16. 5; The whole figure rotates by 45° CW and gets reversed.

17 2; The two elements in the middle row interchange their positions. The third one moves to the opposite side.

18. 3. The bar with close ended tip rotates by 45° ACW with head reversed. Other element rotates by 180°.

19. 1; Equal number of dots inside and dashes outside are added

20. 2; The lower-left and lower-right rotates by 90° CW and shifts to upper-left. Upper-left and middle-left move to middle-right dots inside and dashes outside are added. rotates light respectively. The upper-right rotates by 180° and shifts to middle-left. The middle-right. The middle right rotate by 90 ACW and shift to lower left. The lower right shifts to upper right.

21. 5; The whole figure rotate 90° ACW and shifts one side ACW. The shaded part gets unshaded and vice versa. The unshaded part changes its shape. The adjacent element moves 45° ACW further and gets unshaded. A new adjacent element comes in its place.

22. 2; The bigger element rotates by 90. ACW, gets reduced and shifts one side CW. The smaller element rotates by 90 ACW. Shift one side ACW and get enlarged.

shifts one element side ACW and gets enlarged. wards, the topmost going to the nt rota.dtes by 90° CW, The bigger

23. 3; In each row the elements move from left to right. The rows move one step up upward, the top most going to the lowermost position. Identical elements are replaced with new ones.

24. 5; The curves forming the leaves are removed from ACW end and double the number of curves are added on the CW end.

25. 3; The rhombus rotates by 90° CW, inside elements interchange their places. The outer square remains in its place and gets shaded while the shaded semicircle gets unshaded.

26.. 4 The shading is reduced by two blocks while the number of dots doubles.

27. 5. The inner and outer elements rotate by 90° ACW and become outer and middle respectively w pile middle one rotates by 90° CW and becomes inner.

Abstract Reasoning



28. 2; The upper row elements move from left to right. The rightmost goes to leftmost position while the middle is replaced by a new one. The lower row elements interchange places. Then the upper row and lower row interchange places. The middle row elements are replaced by new ones and move one step towards left.

29. 2; The upper left shifts to lower right and rotates by 90° CW. The central element shifts to lower left and the middle right shifts to upper middle position and rotates by 90° ACW. The lower left shifts to upper left without any change. New elements appear at upper right, middle left and middle right positions.

30. 5; The whole figure rotates by 90° CW while the end element gets inverted.

31.2; The elements move one step upward diagonally. The end elements get doubled. The duplicate of the upper one rotates by 90° CW and is placed at middle left while the duplicate of lower one rotates by 90° ACW and is placed at middle right position.

32. 4; The triangular element rotates by 90° ACW while the square shaped element rotates by 90° CW.

33. 3; The elements rotate by 90° CW. The element with single dash moves one side, the element with two dashes moves half-a-side while the element with three dashes moves one-and-a-half sides CW.

34. 3; From ACW end the petals rotate by 45°, 90° and 225° CW respectively. The shaded petal gets unshaded and vice versa.

35. 4; Elements move half a side ACW while they rotate by 90° CW

36. 2; The left curve gets laterally inverted and interchanges place with the right one. The shaded element on the left curve moves one step downwards while that on the right one moves one step upwards.

37. 1; Beginning from the CW end, the elements move 2 sides, 21/2 sides and half-a-side respectively ACW.

38.3; The inner dots move one side ACW while outer circles move one side CW. the whole figure rotates by 45° CW. .-

39. 1; The CW element rotates by 90° CW and shifts two sides ACW. All others rotate by 00° ACW. The central element becomes the CW element, the ACW element moves to the centre, and the element next to CW element shifts two sides ACW.

40. 5; The whole figure rotates by 135° CW while the shading of the elements moves by 45° ACW.

41. 2; The whole figure rotates by 90° CW. The bigger lines get reduced in size while smaller ones get enlarged 42.4; The upper-left shifts to middle-right and the lower-right shifts to middle-le ged. ft. The other three move one step upward diagonally. The upper-right becomes the lower-left.



43. 2; The shaded petal rotates by 180°, the unshaded one rotates by 90° CW, while the half-petal rotates by 90° CW and gets inverted.

44. 4; The elements on either side move one-and-a-half sides ACW. The left element rotates by 90° CW while right element rotates by 90° ACW and gets enlarged. The middle arrow gets reduced in size, rotates by 90° CW and moves inside the right element.

45. 5; The shaded octant moves four steps CW. The arc moves three steps CW and gets inverted.

46. 4; The leftmost element moves to middle. The middle, the second from the left and the first from the right get inverted and become the leftmost, the second from right and the second from the left respectively. A new element appears at the rightmost position.

47.5; The arc and the adjacent leaf on ACW side move by 45° ACW. The other two leaves rotate by 180°. The shaded leaf remains the same while shaded part of half-shaded leaves gets unshaded and vice versa.

48. 5; The whole figure rotates by 180°.

49. 1; The whole figure rotates by 135° CW. The shaded part gets unshaded and vice versa. The line segment falling adjacent to the shaded part further rotates by 90° CW.

50 1; Both the elements move half-a-side ACW. The outer part of upper element rotates by 90° CW and inner part by 90° ACW. The outer part of lower element rotates by 90° ACW and inner one by 90° CW.

51. 3; The ACW element moves one side ACW while the CW element moves two sides ACW. The two middle elements move two-and-a-half sides ACW.

52. 3; The whole figure rotates by 135° ACW while the dashes move two sides CW.

53.2; Element at position 1 shifts to 3 and rotates by 45° ACW. 3 shifts diagonally. 7 shifts to 8 and rotates by 90° CW. 9 shifts diagonally to 1 and rotates by 90° ACW.

54. 1; Double the number of line segments deleted from LHS is added to the RHS.

55 2; The odd-numbered elements from top gets rotated by 90° ACW while the even-numbered elements get rotated by 90° CW. The topmost shifts to second from bottom. The bottom shifts to top and the second from bottom remains in its place.

56.4; The elements at positions 2 and 7 interchange places. So do elements at 5 and 9. Element at position 1 shifts to 6 while 3 shifts to 4.

57.3; The CW element shifts one side CW. The middle element shifts to centre while ACW element gets doubled and are placed in diagonally opposite corners.

58. 2; The LIB element rotates by 180° and shifts to RHS position. The middle element gets vertically inverted and shifts to LHS position while RHS element shifts to middle without any change.

59. 3; Elements at positions 1 and 6 interchange places; so do elements at positions 3 and 8. While elements at positions 2, 4 and 5 move one step ACW in cyclic order.

60. 1; Elements at positions 1 and 3, 2 and 6, 7 and 9, and 4 and 8 interchange their positions while the central element is replaced by a new one.

61. 5; Three line segments are added to form a triangle.

62.2; The leftmost goes to rightmost position and gets vertically inverted. The middle element moves to left and gets inverted vertically while the right element moves to middle and gets laterally inverted. The bigger element reduces in size and vice versa.

63. 1; The central element quadruples and is placed at corners. The middle-of-the-sides element reduces to one and is placed at centre while the corner elements move to middle of the sides.

64. 1; The figure rotates by 45° CW and gets inverted on its base. The shaded part gets unshaded and vice versa.

65.4; The no. of middle row elements is equal to the number of dots. The elements in the upper row are two more than the middle while the lower row elements are three more than the middle row elements.

66. 5; The figure splits into two parts. If we keep the element in such a way that end elements face upwards then LHS part rotates by 90° CW and shift one side CW while the RHS part rotates by 90° ACW.

67. 4; The elements at positions 1 and 7 rotate by 180° and shift to positions 2 and 9 respectively. 2 and 3 rotate by 90° ACW and shift to 7 and 8 respectively. Element at position 8 gets vertically inverted and shifts to 3



while a new element appears at 1.

68. 2; The whole figure rotates by 45° CW.

69. 2; The ACW end element shifts two sides, the next to it shifts half a sides ACW while other two shift oneand-a-half sides CW. A new element appears at half-a-side from ACW end.

70. 3; The upper right gets laterally inverted and shifts to lower left. The left rotates by 90° ACW and shifts to upper-right while the central element gets vertically inverted.

71. 1; The elements shift from 1 to 8, 2 --> 4, 3 7, 4 -÷ 5 and 5 -+ 3.

72. 1; Elements interchange places and rotate by 135° ACW.

73. 3; The outer element rotates by 135° ACW while the inner one rotates by 90° CW.

74. 5; Elements rotate by 90° CW. The upper-left moves to centre, central element moves to lower-left, and lower-right moves to upper-right.

75. 5; The elements shift one side CW while they rotate by 90° ACW.

76. 1; Elements rotate by 180° and shift one-and-a-half sides ACW.

77. 5; The whole figure rotates by 135° ACW and end elements interchange their positions.

78. 4; The extreme CW element moves to the centre. The central element moves to the ACW end while two side elements move two sides ACW.

79. 1; The outer dash moves by two sides ACW while the shaded semicircle moves by two sides CW: The upper of the inner elements rotates by 90° ACW and the lower one rotates by 180°. The inner elements inter-change their positions.

80. 4; The middle element gets enlarged and the number of its sides increases by one. The upper and lower elements rotate by 90° ACW and are placed inside the middle element on right and left sides respectively.

81.4; The two CW elements move one-and-a-half sides and one side CW respectively. The ACW element moves one-and-a-half sides ACW. The second from ACW end moves to centre anct central element moves to extreme ACW end.

82. 2; Elements at the ends of the triplet interchange their positions and the triplet moves half a side with the single element. The single element is replaced by a new one.

83. 2; The upper element gets inverted vertically while lower element gets inverted laterally. The elements inter-change their positions.

84. 1; The corner elements move one side ACW while middle of the side elements move one side CW. The central element is replaced by a new one.

85. 4; The whole figure rotates by 90° ACW. The second and the fourth elements from top interchange positions and the second element gets inverted.

86. 2; The whole figure rotates by 135° ACW. Shaded parts get unshaded and vice versa. The semi-circle along the wider side and the one on CW side of it rotate by 180°, while the other two remain unchanged.

87. 5; The central element moves to the ACW end. The second from the CW end moves to centre. The other elements from CW end move one, one-and-a-half and two sides CW.

88. 2; The elements move one side CW and rotate by 90° CW. One of the opposite pairs gets inverted vertically.89. 4; The inner half-shaded circle rotates by 135° CW. the open-ended middle element rotates by 90° ACW.While the outer smaller elements interchange places diagonally.

90. 2; The lower three elements rotate by 180°. The left one remains in its place while the Middle and the right move to upper-right and upper-left respectively. The upper-left moves to lower-middle. The upper-middle rotates by 90° CW and moves to lower-right while upper-right rotates by 90° ACW and moves to upper-middle.

91. 5; Among the left column elements, the lowermost becomes uppermost, the middle moves to lower position and the upper moves to middle and is replaced by a new one. The lower-right moves to centre and middle-right moves to lower-right. A new element appears at middle-right position.

92. 1; The whole figure rotates by 45° CW. Elements on the bent bar reverse their directions and the head of one of the elements is replaced by a new one.

Abstract Reasoning



93. 5; The elements move from left to right in rows. The rightmost becomes the leftmost. The element on RI% of the enlarged element gets enlarged and the enlarged clement gets reduced in size. The rows of elements move one step upwards,

94. 3; The shading moves two steps ACW while seven strokes arc added to the outside on the CW side and move se one side CW,

95. 3; The whole figure rotates by 135° CW, The inner element rotates by I 80° while the outer elements move one step CW.

96. 3; From fig. I to fig. II: The corner element becomes the central element, central element becomes the middle of the side elements, and new elements appear on corners.

97. 1; Bigger element rotates by 135° CW while smaller one rotates by 900 ACW. The shading of both interchange.

98. 5; The lower-left and lower-right rotate by 180°. The lower-left remains in its place while the lower-right shifts to opposite position. The upper-left rotates by 135° ACW and shifts to upper-right while upper_ right rotates by 45° 'ACW and shifts to lower-right position.

99.4; The outer element as well as the inner element rotates by 135° CW while the outgrowths of outer element reverses direction. 100. 3; The left element rotates by 180 deg; the middle element gets vertically inverted; and the right one gets inverted laterally.

101.5; The arcs rotate by 90° ACW. The shading moves two steps towards right while the dot moves three steps towards left.

102.2; The half-shaded elements rotate by 90° ACW and shift to the other end. Bigger becomes smaller and vice versa.

103.4; The outer element rotates by 135° CW while the inner elements rotate by 45° ACW and interchange their places.

104. 2; The upper-left moves one-and-a-half sides CW. The lower-right moves two sides CW while the middle one moves half-a-side downwards. The inner element moves one step diagonally before shifting.

105.5; The figure rotates by 135° CW. 106. 4; Beginning from ACW element, the elements move two-and-a-half, two, two, and one-and-a-half sides ACW.

107.3; The whole figure rotates by 135° ACW. The end elements get shaded and elements lying on the middle bar get reversed. 108.4; Elements rotate by 90° ACW and shift one side ACW.

109. 4; The smaller elements get enlarged, rotate by 90° CW and shift one side CW. The middle element gets reduced in size, gets doubled and move inside the close-ended elements after rotating 45° CW and 45° ACW respectively.

110.2; The whole figure rotates by 90° ACW. Then the frame gets inverted while black spots remain in its place.

111.5; Elements move half a side from left to right. From rightmost place they shift to leftmost place.

112. 3; The upper element rotates vertically and the lower element rotates horizontally.

113.5; In the second figure, three pins disappear. If you look at one pin left in the middle, two of the disappeared pins are from the CW side and one from the ACW side. In (5) this order changes.

114.2; The figure rotates by 90° CW. The no. of lines increases by one.

115.4; Upper-left becomes lower-left, lower-right becomes upper-left, and upper-right is replaced by a new one.

116. 3; The figure rotates by 90° CW and gets inverted on the line bearing arc and square.

117. 4; The arrow moves one side ACW and goes inside if it is outside and vice - versa. The other embedded element come to front.

118. 3; The elements interchange their positions diagonally and route the 90° ACW. The sides of upper right figure gets reduced by one.

119. 1; The element move from 1 to 4 ---+ 3 1 ccv8 7 TO 6 -- 0 9 --+ 7.

120. 4; The dot moves two steps CW while the cross moves four steps CW.

121. 2; The upper two elements of the second is the mirror image while the lower two are water image of the first.

122. 5; Incomplete figure gets completed and a similar figure comes inside this. The main figure diminishes.

123. 4; The upper-right and the lower-left are water images and the upper-left and the lower-right are mirror images.

124. 3; The lines inside the figure represent the number of lines of the figure.