

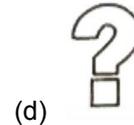
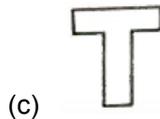
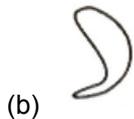
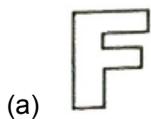
**Note: All questions carry 1 mark each.**

1. If a figure is folded about its axis of symmetry, then the two halves will
  - (a) coincide
  - (b) be of same shape and size
  - (c) be congruent
  - (d) All of these
2. Identify the pair of the alphabets, which have no line of symmetry.
  - (a) A,B
  - (b) F, G
  - (c) O,H
  - (d) M,W
3. Which of the following has two lines of symmetry?
  - (a) X
  - (b) T
  - (c) A
  - (d) E
4. Which of the following triangles has no line of symmetry?
  - (a) Equilateral
  - (b) Isosceles
  - (c) Scalene
  - (d) None of these
5. Which of the following has no line of symmetry?
  - (a) A semi-circle
  - (b) An angle
  - (c) A line segment
  - (d) A parallelogram
6. A kite is symmetrical about
  - (a) only one diagonal
  - (b) both diagonals
  - (c) all the sides
  - (d) None of these
7. A regular pentagon has \_\_\_\_\_ lines of symmetry.
  - (a) 2
  - (b) 1
  - (c) 5
  - (d) 4
8. A rectangle is symmetrical about
  - (a) a line joining the mid-point of its opposite sides
  - (b) its diagonals
  - (c) Both (a) and (b)
  - (d) None of these
9. How many axes of symmetry does a circle have?
  - (a) 0
  - (b) 1
  - (c) 2
  - (d) infinite
10. Rotation by  $90^\circ$  means
  - (a) half turn
  - (b) three fourth turn
  - (c) quarter turn
  - (d) full turn
11. The order of rotational symmetry in the figure given below is

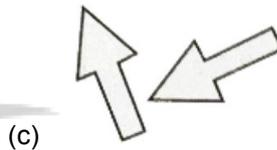
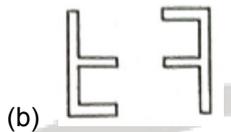
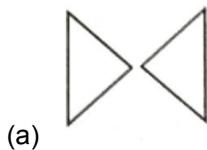


- (a) 4
- (b) 8
- (c) 6
- (d) Infinitely many

12. Which of the following has a line of symmetry?



13. Which of the following are reflections of each other?



14. Assertion : A regular hexagon has six lines of symmetry.

Reason : A regular shape has as many lines of symmetry as the number of sides.

- (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- (b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
- (c) If Assertion is true but Reason is false.
- (d) If Assertion is false but reason is true.

15. Assertion : An isosceles triangle has a line of symmetry but it does not have rotational symmetry.

Reason : If a figure has rotational symmetry of order 1 , then the figure has no rotational symmetry.

- (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- (b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
- (c) If Assertion is true but Reason is false.
- (d) If Assertion is false but reason is true.

16. Assertion : A parallelogram has 2 lines of symmetry and its order of rotation is 4 .

Reason : A regular polygon has as many lines of symmetry as it has vertices.

- (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- (b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
- (c) If Assertion is true but Reason is false.
- (d) If Assertion is false but reason is true.