



# ASSIGNMENT-17



Marks Obtained: \_\_\_\_\_

Student's Name: \_\_\_\_\_ Section: \_\_\_\_\_

Roll Number: \_\_\_\_\_ Date: \_\_\_\_\_

### A. Fill in the blanks

1. A shape with no lines of symmetry is called \_\_\_\_\_.
2. The type of symmetry where a shape maps onto itself when reflected over a line is called \_\_\_\_\_ symmetry.
3. A shape has rotational symmetry of order 4. The smallest angle of rotation is \_\_\_\_\_ degrees.
4. The letter 'M' has a \_\_\_\_\_ line of symmetry.
5. The angle through which the object looks exactly the same is called \_\_\_\_\_.

### B. State true or false

1. A tessellation can be created using only regular pentagons. \_\_\_\_\_
2. All triangles have at least one line of symmetry. \_\_\_\_\_
3. A shape with rotational symmetry of order 3 will look the same after every 120° rotation. \_\_\_\_\_
4. The number of lines of symmetry in a circle is double the number of lines of symmetry in a semicircle. \_\_\_\_\_
5. Reflection symmetry is the same as rotational symmetry. \_\_\_\_\_

### C. Match the following

Column I (Shape)	Column II (No. of lines of symmetry)
1. Parallelogram	(a) 6
2. Rhombus	(b) 3
3. Regular heptagon	(c) 0
4. Equilateral triangle	(d) 2
5. Regular hexagon	(e) 7

### D. Do as directed

1. Shade three more triangles to make a pattern with rotational symmetry of order 3.

