



## ASSIGNMENT-3



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

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

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

### A. Multiple Choice Type Questions

Identify the correct answer.

1. Let A, B, C and D be four distinct points in a plane such that no three of them are collinear. How many lines can be drawn using these points?

- (a) 10 (b) 6 (c) 8 (d) unlimited

2. If A, B and C are three points on a line segment such that  $AB = 6$  cm,  $BC = 3$  cm and  $AC = 9$  cm, which one of them lies between the other two?

- (a) A (b) B (c) C (d) None of these

3. How many distinct rays are there in the given figure?

- (a) 5 (b) 4 (c) 6 (d) unlimited



4. Which of the following are two acute angles whose sum is a right angle?

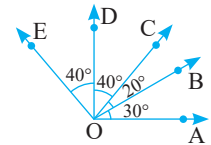
- (a)  $90^\circ, 0^\circ$  (b)  $100^\circ, 10^\circ$  (c)  $100^\circ, 80^\circ$  (d)  $37^\circ, 53^\circ$

5. The measures of the two angles between the hour and minute hands of a clock at 7 o'clock are

- (a)  $210^\circ, 150^\circ$  (b)  $240^\circ, 120^\circ$  (c)  $285^\circ, 75^\circ$  (d)  $330^\circ, 30^\circ$

6. In the given figure, the number of acute angles is

- (a) 4 (b) 6  
(c) 7 (d) 8



7. Two right angles can be

- (a) Supplementary (b) Linear pair (c) Adjacent (d) All the above

8. A semi-circular piece of a plastic sheet is divided into 8 equal parts as shown.

Using this piece which among the following angles can be measured accurately?

- (a)  $11.5^\circ$  (b)  $44.5^\circ$  (c)  $125^\circ$  (d)  $135^\circ$



### B. Assertion and Reason Type Questions

In the following questions, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option.

- (a) Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A).  
(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not a correct explanation of Assertion (A).  
(c) Assertion (A) is true but Reason (R) is false.  
(d) Assertion (A) is false but Reason (R) is true.

9. **Assertion:** If the arms of an angle are extended, the angle measure will increase.

**Reason:** The measure of an angle depends only on the amount of rotation between its two arms, not on their length.

10. **Assertion:** Two lines in a plane can either be parallel, intersect at exactly one point or coincide.

**Reason:** If two lines are not parallel, they must be perpendicular.