Mathematics

(Chapter 4) (Basic Geometrical Ideas) (Practice Test - 6)
(Class VI)

Time Allowed: 1 Hour 15 Minutes   **Maximum Marks: 25**

General Instructions:
- This question paper contains four sections – A, B, C, and D. Each part is compulsory.
- Section – A has 5 MCQ of one mark each.
- Section – B has 3 questions of two marks each.
- Section – C has 3 questions of three marks each.
- Section – D has 2 questions of five marks each, attempt any 1 out of 2.
- There is no negative marking.

Section – A

1. Mark three points P, Q and R in your note book and draw a line passing through the points. How many lines can you draw passing through both the points?
(A) 0   (B) 1   (C) 2   (D) 3

2. Can 150 points be coplanar?
(A) Yes   (B) No   (C) Undetermined

3. Two lines in a plane always intersect in a point.
(A) True   (B) False   (C) Undetermined

4. Any plane through a vertical line is vertical.
(A) True   (B) False   (C) Undetermined

5. Any plane through a horizontal line is horizontal.
(A) True   (B) False   (C) Undetermined

Section – B

6. Illustrate, if possible, each one of the following with a rough diagram:
    A closed curve that is not a polygon

7. Name the angles in the given figure.
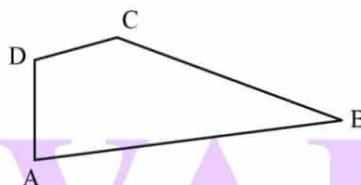
8. A quadrilateral having all sides equal is called ....

Section – C

9. Draw rough diagrams of two angles such that they have.
(i)   One point in common
(ii)   Two points in common
(iii)   Three points in common

10. (i)   A triangle having all sides of different length is known as
    (ii)   A triangle whose one angle is more than 90° is called

11. Draw a circle with centre O and radius 5 cm. Mark points P, Q, R such that
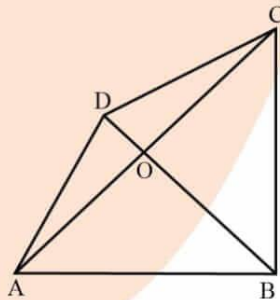
(i) P lies on the circle

(ii) Q lies in the interior of the circle

(iii) R lies in the exterior of the circle

Section – D

12. Draw any circle and mark.

(i) its centre

(ii) a radius

(iii) a diameter

(iv) a sector

(v) a segment

13. In Figure, A, B, C and D are four points, and no three points are collinear. AC and BD intersect at O. There are eight triangles that you can observe. Name all the triangles.

Answers

Section – A

1. 1
2. Yes
3. False
4. True
5. True

Section - B

6.
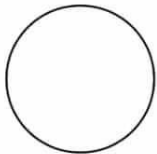
7. ∠DAB, ∠ABC, ∠BCD and ∠CDA
8. Rhombus

Section – C

9.

(i)

(ii)
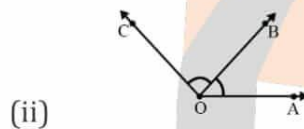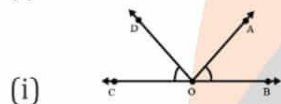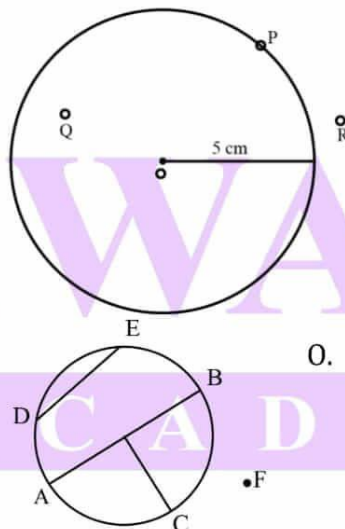

10. (i) scalene triangle
    (ii) An obtuse triangle

11.

Section – D

12. (i) The centre of the circle is   O.
    (ii) The radius is OC
    (iii) A diameter is $\overline{AB}$
    (iv) A sector is AOC
    (v) A segment is DE

13. △ ABC, △ ABD, △ ABO, △ BCO, △ DCO, △ AOD, △ ACD and △ BCD.