Mathematics

(Chapter 4) (Basic Geometrical Ideas) (Practice Test - 3)

(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. There are a number of ways by which we can visualize a portion of a line. State whether the following represent a portion of a line or not:

Wire between two electric poles.

(A) Yes   (B) No   (C) Undetermined

2. Can you draw a line on the surface of a sphere which lies wholly on it?

(A) Yes   (B) No   (C) Undetermined

3. Four points are collinear if any three of them lie on the same line.

(A) True   (B) False   (C) Undetermined

4. The maximum number of points of intersection of three lines is three.

(A) True   (B) False   (C) Undetermined

5. The maximum number of points of intersection of three lines is one.

(A) True   (B) False   (C) Undetermined

Section – B

6. Illustrate, if possible, each one of the following with a rough diagram:

A polygon with two sides.

7. Draw rough diagrams of two angles such that they have
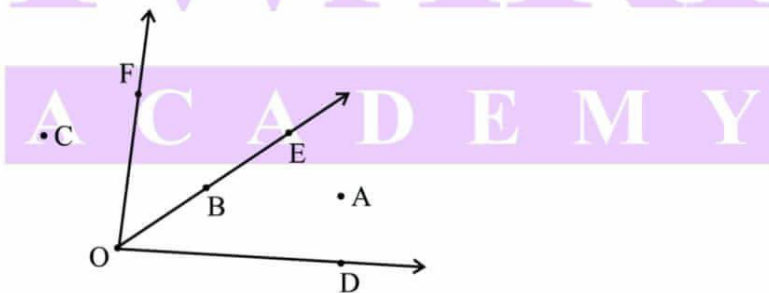   - (i)   Four points in common
   - (ii)   One ray in common

8. Given a circle with centre O and radius 2.5 cm, what is the length of the longest chord of the circle?

Section – C

9. Use the figure to name:
   (i)   Four rays
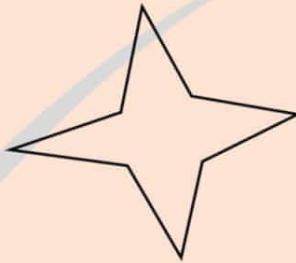   (ii)   Five line segments

10. From the figure, identify:
(i) a point in its interior
(ii) a point in its exterior
(iii) an arc
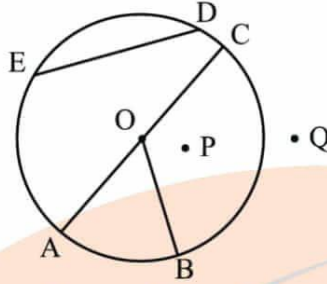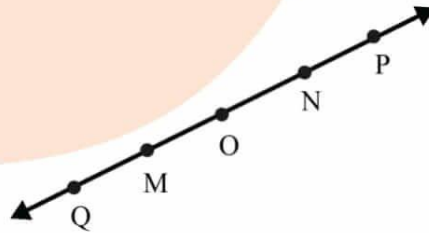
11. Consider the given figure and answer the questions:
(i) Is it a curve?
(ii) Is it closed?

Section – D

12. Consider the following figure of line $\overleftrightarrow{MN}$. Say whether following statements are true or false in context of the given figure.

(i) Q, M, O, N, P are points on the line $\overleftrightarrow{MN}$.
(ii) M, O, N are points on a line segment $\overline{MN}$.
(iii) M and N are end points of line segment $\overline{MN}$.
(iv) O and N are end points of line segment $\overline{OP}$.
(v) M is one of the end points of line segment $\overline{QO}$.

13. Draw a rough sketch of a quadrilateral KLMN. State
(i) two pairs of opposite sides
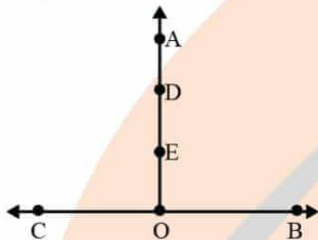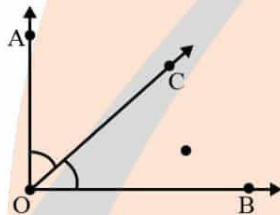(ii) two pairs of opposite angles

Answers

Section – A

1. No
2. No
3. False
4. True
5. False

Section - B

6. No, it's not possible

7. (i)

(ii)

8. 5 cm

Section – C

9. (i) $\overrightarrow{OD}, \overrightarrow{OB}, \overrightarrow{OC}$ and $\overrightarrow{OE}.$
   $\overline{DE}, \overline{EO}, \overline{OB}, \overline{OC}$ and $\overline{BE}$

10. (i) O
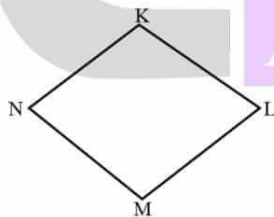   (ii) F
    (iii) $\overparen{AC}$

11. (i) Yes
    (ii) Yes

Section – D

12. True, True, True, False, False

13. (i) $\overline{KL}, \overline{NM}$ and $\overline{KN}, \overline{ML}$
    (ii) ∠KLM, ∠KNM and ∠LKN, ∠LMN