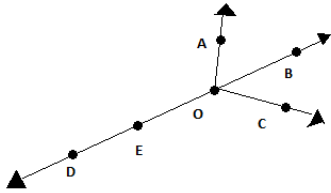


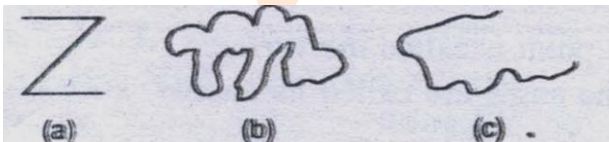
**Class: 6**  
**Subject: Mathematics**  
**Topic: Basic Geometrical Ideas**  
**No. of Questions: 15**

- Q1. Use the figure to name:
- Five points
  - A line
  - Four rays
  - Five line segments



- Q2. Draw a rough figure and label suitable in each of the following cases:
- Point P lies on  $\leftrightarrow_{AB}$
  - $\leftrightarrow_{XY}$  and  $\leftrightarrow_{PQ}$  intersect at M.
  - Line l contains E and F but not D.
  - Op and OQ meet at O.

- Q3. Classify the following curves as (i) Open or (ii) closed

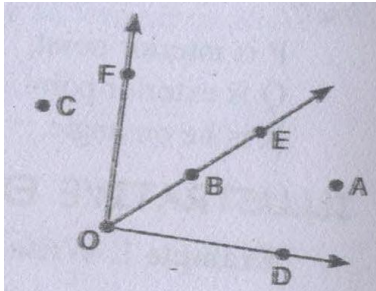


- Q4. Consider the given figure and answer the questions:

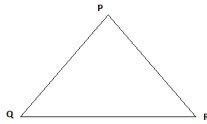


- Is it a curve?
- Is it closed?

- Q5. In the given diagram, name the points(s)
- In the interior of  $\angle DOE$
  - In the exterior of  $\angle EOF$
  - On  $\angle EOF$

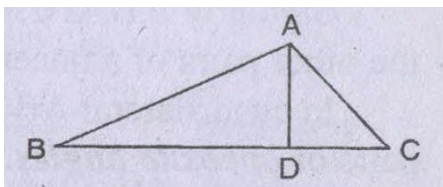


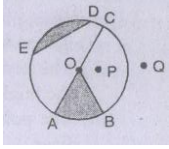
- Q6. Look at the  $\Delta PQR$  and complete the following table (with suitable entry)



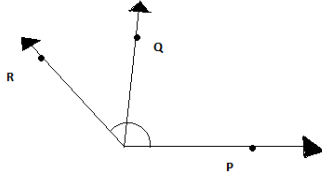
Vertex	Name of the sides joining the vertex	Side opposite to vertex
P	PQ and PR	QR
Q	.....	.....
R	.....	.....

- Q7. (a) Identify three triangles in the figure. (b) Write the names of seven angles. (c) Write the names of six line segments. (d) which two triangles have  $\angle B$  as common?



- Q8. Mark a point M in the interior and a point N in the exterior of quadrilateral ABCD. Join MN. Does MN meet the quadrilateral? If yes, in how many points?
- Q9. Draw a rough sketch of a quadrilateral PQRS. Draw its diagonals. Name them. Is the meeting point of the diagonals in the interior or exterior of the quadrilateral?
- Q10. Draw a rough sketch of a quadrilateral KLMN. State:
- Two pairs of opposite sides,
  - Two pairs of opposite angles,
  - Two pairs of adjacent sides,
  - Two pairs of adjacent angles
- Q11. From the figure identify
- 
- The center of circle
  - Three radii
  - A diameter
  - A chord
  - Two points in the interior
  - A point in the exterior
  - A sector
  - A segment
- Q12. a Is every diameter of a circle also a chord?  
b Is every chord of a circle also a diameter?
- Q13. Given three examples of angles from your environment.
- Q14. Fill in the blanks to make the statements true:
- All the radiuses of the circle are .....
  - All the diameters of the circle are .....
  - Diameter of a circle is ..... its radius.
  - Diameters of a circle meet at the ..... of the circle.

Q15. How many angles are shown in following figure? Name them.



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