Chapter – 14

Practical geometry

$\underline{Worksheet-1}$

1	Δ	is a tool or devices to measure length of any object.
1.		Thread
		Rope
		Ruler
		Pencil
2.		is a tool used to draw arcs and circles.
		Compass
		Rope
		Ruler
	d.	Pencil
3.	A	is a tool used to compare lengths.
		Compass
	b.	Divider
	c.	Ruler
	d.	Pencil
4.		are a pair of devices used to construct perpendicular and parallel
	lin	es.
		Compass
		Divider
	c.	Ruler
		Set Squares
5.		is a device to measure or draw angles.
		Compass
		Divider
		Ruler
_		Protractor
6.		is a shape in which every point on the boundary is at an equal
		stance from its centre.
		Triangle
		Rectangle
	c.	Square

- d. Circle
- 7. A line-segment is bounded by ____ end-points.
 - a. 1
 - b. 2
 - c. 3
 - d. 4
- 8. A bisector of an angle divides into its value.
 - a. Quarter
 - b. Half
 - c. Three-fourth
 - d. Two-fifth
- 9. Match the column:

Column A	Column B	
a. Tangent	i.	Circles which have same
		center.
b. Concentric circles	ii.	a line passing only through
		a single point on the
		circumference of the circle.
c. Arc	iii.	Form square inside the
		circle.
d. Two diameters cut at 90°	iv.	A smooth small curve

10. State true or false:

- a. Two diameters intersecting at 90° make a square inside the circle.
- b. When two circles with same radius intersect each other they make a rhombus shape.
- c. Diagonal of a rectangle does not bisect the angles of its two vertices.
- d. One line segment can be divided into two rays.
- 11. Draw perpendicular bisector to a line segment using a compass?
- 12. Construct an angle of 45° using a compass and ruler?
- 13. AC is a straight line and B is their midpoint. Using a compass construct $\angle DBC = 90^{\circ}$?
- 14. Construct \overline{AC} of length 7.5 cm. From this cut off \overline{AB} of length 5 cm. Measure \overline{BC} .
- 15. Draw any circle and mark points P, Q and R such that:

- a. A is on the circumference of the circle.
- b. B lies inside the circle.
- c. C lies outside the circle.
- 16. Draw a circle with diameter $\overline{AB} = 7$ cm?
- 17. Draw a circle with radius 4.5 cm at centre P. Draw a chord TU anywhere in the circle and draw perpendicular bisector PV on it?
- 18. Draw an equilateral triangle ABC. Draw three perpendicular bisectors of AB, BC and CA and check whether all the three lines intersect each other at the same point or not?
- 19. Draw two concentric circles of length 3.5 cm and 6 cm?
- 20. \overline{AB} and \overline{CD} are two equal length line segments which intersect each other at 90°. Construct a circles whose circumference passes through all four points A, B, C, D.