Assignment – I

GEOMETRICAL CONSTRUCTIONS

1. Draw a horizontal and vertical line AB of 100 mm.

2. Draw an inclined line CD and EF of length 125 and 150 mm at an angle of 65° and -35° respectively.

3. Draw a 120 mm long line GI inclined at 60° to the horizontal. Erect a perpendicular to GH of length 60 mm from point H , lying at a distance 30 mm from end G.

4. Draw a Circle of diameter 60 mm.

5. Draw a Rectangle of 70 * 30 mm.

6. Draw a hexagon of side 35 mm using Edge Method.

7. Draw a pentagon of 40 mm side using Inscribed in a Circle method.

8. Draw a Triangle of 50 mm side using Circumscribe about Circle method.

9. Draw the polygon of 3,4,5,6,7,8 sides with a common side of 30 mm.

10. Draw a Square inscribed in a circle of radius 30 mm.

11. Draw a hexagon circumscribed in a circle of diameter 70 mm.

12. Draw an arc of 50 mm radius connecting two straight lines with an angle of 135°.

13. Divide a line RS of 120 mm into seven equal parts.

14. Divide a Circle of 100 mm diameter into 12 equal parts.

15. Draw three parallel lines of length 100 mm at an angle of 35° to horizontal.

16. Draw five concentric circles of 10 mm radius using offset.

17. Draw an ellipse with a major axis 120 mm and minor axis 60 mm.

18. Write "MALLA REDDY UNIVERSITY" at an angle of 55° with 10 mm text height.

19. Write "$ax^2+bx+c=0$" with 15 mm Bold italic text.

Note :

- Write Question in every sheet.
- Give proper dimensioning.