Geometrical Constructions

Sheet No: 1

1. Draw a rectangle having length = 10 cm and height = 5 cm and do clockwise hatching at 45° with 2 mm spacing.
2. Draw a rectangle having length = 10 cm and height = 5 cm and do counter clockwise hatching at 45° with 2 mm spacing.
3. Divide a line segment having 18 cm length into 23 equal parts.
4. Draw polygons with 4, 5 ,6, 7 and 8 sides each in such a way that one of the side, AB = 3 cm, of polygon is inclined at an angle of 35° with horizontal.
5. Inscribe an octagon in a circle of radius = 5 cm.
6. Describe a pentagon over a circle of radius = 4 cm.
7. Inscribe a circle in a heptagon of side = 4 cm.
8. Describe a circle over a hexagon of side = 5 cm.
9. Draw a curve of radius 5 cm touching two lines which are inclined at 75° with each other.
10. Bisect the given line (AB = 6.3 cm), angle (Ø = 63°) and arc (l = 10 cm).