Max. Marks: 30   **Time Allowed: 1 hours 30 minutes**

Note: Attempt all questions. .

Q1   The top view of a 75mm long line AB measures 65mm. If its one end A is in H.P. and 12mm infront of V.P. Draw its projections and determine its inclination with H.P. if the inclination of its Front View with H.P. is 45°.

(5 marks)

(b)   Draw projections and find the true length of a line AB if its end A is 10mm above H.P. and 16mm in front of V.P. The true inclination of the line with H.P. is 45° and that with V.P. is 30°. The top view of the line measures 50mm.

(5 marks)

Q2   A regular hexagonal plane of 30mm side has one side in V.P.. Its plane is inclined at 45° to V.P. and is perpendicular to H.P. Draw the projections, assuming any suitable distance from H.P.
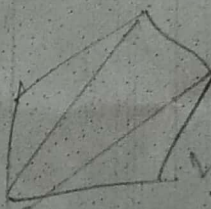
(5 marks)

(b)   Draw the projections of a circle of diameter 5cm having its plane vertical and inclined at 30° to V.P. Its centre is 5cm above H.P. and 4cm infront of V.P.

(5 marks)

Q3   Draw the projections of a regular pentagon 32mm side, having its surface inclined at 30° to H.P. and a side 10mm above and parallel to H.P. and inclined at 60° to V.P.

(10 marks)