

SARDAR VALLABHBHAI PATEL INSTITUTE OF TECHNOLOGY, VASAD

MCEHANICAL ENGINEERING DEPARTMENT

2ND TEST – ENGINEERING GRAPHICS & DESIGN (3110013)

FY –1ST SEMESTER (COMP & IT) – ACADEMIC YEAR 2021-22

TOTAL MARKS: 15

TIME: 50 minutes

Date: 13/01/2022



- Q. 1** Draw Isometric drawing of given figure. Give dimensions using uni-directional method. **5**
- Q. 2** A line AB 80mm long is inclined at 30° to VP and point A is 15mm above HP and on VP. End projector distance for line measures 50mm. Draw the projection of line when point B is in 3rd quadrant. **5**
- OR**
- Q.2** Top view of line PQ measures 40mm and inclined at 50° . Point P is 10mm below HP and 15mm behind VP. Draw the projection of line when point Q is 50mm below HP and behind VP. **5**
- Q.3** The foci of an ellipse are 110 mm apart. The minor axis is 70 mm long. Determine the length of the major axis and draw half ellipse by rectangle method and other half by concentric circle method. **5**
- OR**
- Q.3** A 50 mm diameter circle rolls for one rotation on a straight line. Draw and name the locus of point P which is an initial point of contact between circle and line. Also draw tangent and normal at any point to the curve. **5**

