

**PRAGATI ENGINEERING COLLEGE: SURAMPALEM  
(AUTONOMOUS)**

**I B.Tech I Semester Supplementary Examinations, July – 2024**

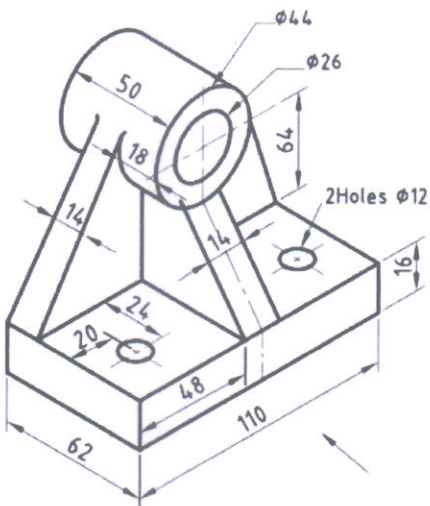
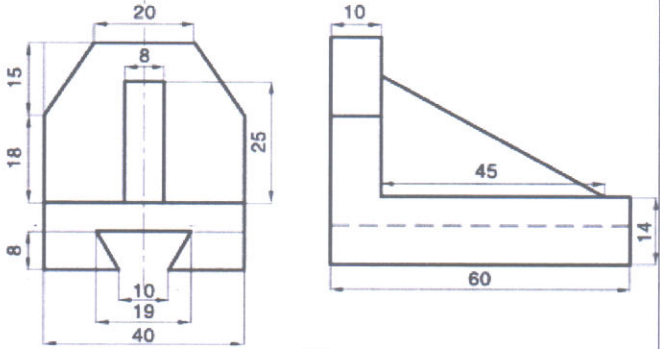
**ENGINEERING DRAWING  
(EEE, ECE and ME)**

Time: 3 hours

Max. Marks: 70

**Answer ONE Question from each Unit  
All Questions Carry Equal Marks**

Q. No.	Questions	BTL	CO	Marks
<b>UNIT – I</b>				
1.	Draw a parabola when the distance of the focus from the directrix is equal to 50mm. Also draw a normal and a tangent at any point on the curve.	K3	CO1	14M
<b>OR</b>				
2.	Construct a Diagonal scale of RF = 3:200 showing meters, decimeters and centimeters. The scale should measure up to 6 meters. Show a distance of 4.56 meters.	K3	CO1	14M
<b>UNIT – II</b>				
3.	a) A line measuring 60 mm long has one of its end 40 mm above H.P and 30 mm in front of VP. The other end is 25 mm above HP and in front of VP. The front view of the line is 55 mm long. Draw the top view.	K3	CO2	7M
	b) Draw the projections of the following points on the same ground line, keeping the Projectors 20mm apart. (a) Point A, 20mm above the H.P. and 30mm in front of the V.P. (b) Point B, on the H.P. and 40mm in front of the V.P. (c) Point C, 15mm above the H.P. and in the V.P.	K3	CO2	7M
<b>OR</b>				
4.	The top view of a 75mm long line AB measures 65mm, while the length of its front view is 50mm. Its one end A is in the H.P. and 12mm in front of the V.P. Draw the projections of AB and determines its inclinations with the H.P. and the V.P.	K3	CO2	14M
<b>UNIT – III</b>				
5.	Draw the projections of a circle of 40 mm diameter, resting on HP on a point on the circumference. Its plane is inclined at $30^{\circ}$ to the HP. and perpendicular to the VP. Its center is 35mm in front of the VP	K3	CO3	14M
<b>OR</b>				
6.	A hexagonal lamina of 35mm side stands with one of its edges parallel to and 20mm in front of VP. such that the surface is $45^{\circ}$ inclined to VP. if the edge parallel to VP is inclined at $60^{\circ}$ to HP. Draw the projections of the lamina.	K3	CO3	14M
<b>UNIT – IV</b>				
7.	A hexagonal prism, base 30 mm side and axis 75 mm long, has an edge of the base parallel to the H.P. and inclined at $45^{\circ}$ to the V.P. Its axis makes an angle of $60^{\circ}$ with the H.P. Draw its projections.	K3	CO4	14M
<b>OR</b>				
8.	A pentagonal pyramid with side of the base 30 mm and axis 60mm long is resting on one of its base edges on HP and the triangular face containing the resting edge is perpendicular to HP and parallel to VP. Draw the	K3	CO4	14M

projections				
UNIT – V				
9.	<p>Draw the front view, top view and side view of object as shown in fig. below</p> 	K3	CO5	14M
OR				
10.	<p>Fig. below shows FV, TV and SV of an object.</p>  <p>Draw the isometric view.</p>	K3	CO5	14M