RV College of Engineering®
Mysore Road, RV Vidyaniketan Post,
Bengaluru - 560059, Karnataka, India

NBA Accredited (UG - 6Years)

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Tel: 080-68188143 / 8144

Department of Mechanical Engineering

CIE – I

Date	12th December 2024	Maximum Marks	50
Course Code	ME112GL	Duration	90 Min
Course Name	Computer Aided Engineering Graphics	USN:	

#	Questions	M	BT	CO
1.	Point P is 20mm in front of VP, 40mm below HP and 35mm behind LPP. Draw its projections and state the quadrant in which point P lies.	10	L2	CO1
2.	A line AB, 70 mm long, has its end A 20 mm above HP and 25 mm infront of VP. Line is inclined at 45° VP and end B is 50mm above HP. Draw the projections of line AB and determine its inclinations with the HP.	10	L2	CO1
3.	A regular pentagonal lamina of 30mm sides rests on one of its corners on HP, the surface of the lamina is inclined at 45° to HP. Draw its projections.	15	L2	CO2
4.	A hexagonal pyramid of base sides 25mm and 55mm axis length rests on HP on one of its base edges which is inclined at 30° to VP. Draw its projections when the axis is inclined at 40° to HP.	15	L3	CO3
	OR			
5.	A square prism 30mm base edges and 55mm axis length rests on HP on one of its corners. Draw the projections of the prism when the axis is inclined at 45° to HP and 30° to VP.	15	L3	CO3

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CAEG Lab Test

Date	16th January 2025;11.30 to 1.30 PM	Maximum Marks	50
Course Code	ME112GL	Duration	120 Min
Course Name	Computer Aided Engineering Graphics **(I Sem Computer Science D Section)**		
USN:	Name:		Batch No:

Answer all questions

Q		M
1	A pentagonal prism 25 mm sides of base and axis 60 mm long rests on HP on one of its base edges which is inclined at 30^0 to VP. The axis of the prism is inclined at 40^0 to HP. Draw its **projections**.	15
2	A hexagonal pyramid of sides 35 mm and altitude 65 mm is resting on HP on its base with two of the base sides perpendicular to VP. The pyramid is cut by a plane inclined at 30^0 to HP and perpendicular to VP and intersects the axis 30 mm above the base. Draw the **development** of the remaining portion of the pyramid	15
3	A rectangular pyramid of base sides 50 mm x 30 mm is placed centrally on a cylindrical slab of diameter 80 mm and thickness 40 mm. Draw the **isometric projection** of the combination.	
	OR	
	Create a 3 D model of the component shown in solidworks and extract the front view looking from the right, left side view and the top view. Show all the important dimensions in the drawing. 	20

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