

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)*

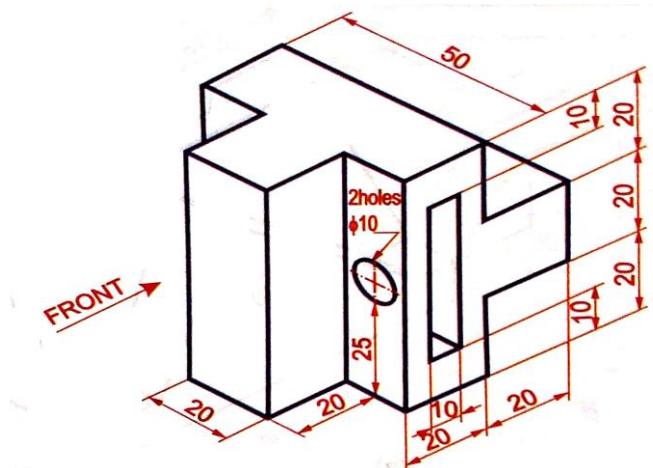
UG/PG DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL/MAY 2026

*Second Semester**Common to all Branches*

GE3251 / UGET24201 – ENGINEERING GRAPHICS

*Regulations – 2021 & 2024**Duration : 3 Hrs**Maximum : 100 Marks**ANSWER ALL QUESTIONS (Marks 5*20 = 100)*

Q.No	Questions	BTL	CO	Marks
1.	a Construct a curve when the distance between the focus and directrix is 60 mm and eccentricity is $3/2$. Also draw the tangent and normal to any point on the curve.	L3	1	20
	Or			
	b Construct a parabola when the distance between focus and direction is 50mm. Also, draw the tangent and normal to any point.	L3	1	20
2.	a The distance between the Projectors of two ends of a straight line is 40mm. The lower end is 15 mm above HP and 40 mm in front of VP. The upper end is 40 mm above HP and 50 mm in front of VP. Find the true length and true inclination of line.	L3	2	20
	Or			
	b A hexagonal plate of 40 mm side. The plane stands on one of its corners on the HP and plane inclined 30° to VP and 35° inclined to HP. Draw its projections.	L3	2	20
3.	a A cone of base diameter 50 mm and axis length 70 mm is resting on HP on one of its generators with its axis parallel to VP. Draw its projections.	L3	3	20
	Or			
	b Draw the sketches of the Front View, Top view and Right-side view of the component given below in figure.	L3	3	20



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| 4. | a | A pentagonal pyramid of base side 40mm and altitude 80mm rests on the HP on its base with an edge of the base parallel to the VP. It is cut by a vertical plane inclined at 45° to the VP at a distance 10mm from the axis. Draw the top view, sectional front view and the true shape of the section. | L3 | 4 | 20 |
| | | Or | | | |
| | b | Draw the development of the lateral surface of the lower portion of a cylinder of diameter 50 mm and axis 70 mm. The solid is cut by a section plane inclined at 40° to H.P. and perpendicular to V.P. and passing through the midpoint of the axis. | L3 | 4 | 20 |
| 5. | a | A hexagonal prism of base side 25mm and axis height 50mm rests on HP on its base with a base edge parallel to VP. It is cut by a plane inclined at 50° to HP and perpendicular to VP and is bisecting the axis. Draw the isometric view of truncated prism. | L3 | 5 | 20 |
| | | Or | | | |
| | b | A cube of side 40 mm rests on the ground on its base with all the vertical faces equally inclined to PP. One vertical edge is touching the PP and is 20 mm to the left of the station point which is 75 mm above the ground and 50 mm in front of PP, draw the perspective view of the cube. | L3 | 5 | 20 |