

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025

Second Semester

Common to all Branches

GE3251 / UGET24201 – Engineering Graphics

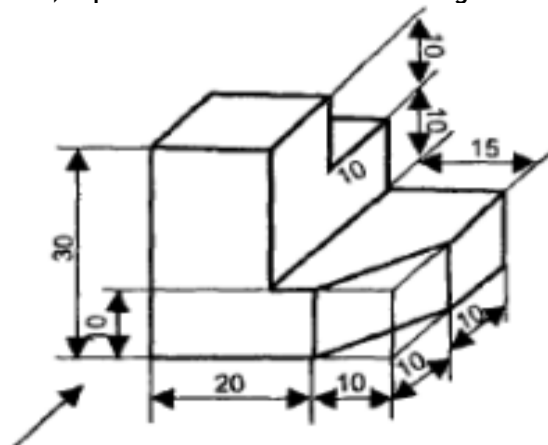
Regulations – 2021 & 2024

Duration : 3 Hrs

Maximum : 100 Marks

PART – A (ANSWER ALL QUESTIONS) (Marks 5*20 = 100)

Q.No	Questions	BLT	CO	Marks
1.	a When the distance of the focus from its directrix is 58 mm and eccentricity is $\frac{3}{2}$. Name of the curve and also draw a normal and tangent of a curve at 30 mm from the directrix.	L2	1	20
	Or			
	b An inelastic string is wound around the circumference of a semi- circular cylinder of diameter 66 mm. The string is unwound completely by holding its free end such that it is always tightly stretched. Draw the path of the free end of the string.	L2	1	20
2.	a A line AB, 65 mm long, has its end A 20 mm above HP and 25 mm in front of VP. End B is 40 mm above HP and 65 mm in front of VP. Draw the projections of AB. Find its inclinations with HP and VP.	L5	2	20
	Or			
	b A circular lamina of 60 mm diameter rests on HP on a point 1 on the circumference. The lamina is inclined to HP such that the top view of it is an ellipse of minor axis 35 mm. The top view of the diameter through the point 1 makes an angle of 45° with VP. Draw the projections and Determine the angle made by the lamina with HP.	L5	2	20
3.	a A Pentagonal prism, side of base 25 mm and axis 50 mm long rests with one of its shorter edges on HP such that the base containing that edge makes an angle of 30° to HP and its axis is parallel to VP. Draw its projections.	L3	3	20
	Or			
	b Draw the front view, top view and side view of the given figure.	L3	3	20



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| 4. | a | A square pyramid base 40 mm side and axis 65 mm long has its base on H.P. and all the edges of the base are equally inclined to V.P. It is cut by a section plane perpendicular to V.P. and inclined at 45° to H.P. and-bisecting the axis. Draw its sectional top view and the true shape of the section. | L3 | 4 | 20 |
| | | Or | | | |
| | b | A cone of base diameter 80mm and axis height 80mm rests on the HP on its base. A square hole of side 40mm is cut horizontally through the cone such that the axis of the hole and the square intersect at a height of 16mm from the base. If the sides of the hole are equally inclined to the HP, draw the development of the lateral surface of the cone. | L3 | 4 | 20 |
| 5. | a | A hexagonal prism side of base 25 mm and height 50 mm rests on HP and one of the edges of its base is parallel to VP. A section plane perpendicular to VP and inclined at 50° to HP bisects the axis of the prism. Draw the isometric projection of the truncated prism. | L3 | 5 | 20 |
| | | Or | | | |
| | b | A rectangular pyramid, base 30 mm x 20 mm and axis 35 mm long, is placed on the ground plane on its base, with the longer edge of the base parallel to and 30 mm behind the picture plane. The central plane is 30 mm to the left of the apex and station point is 50 mm in front of the picture plane and 25 mm above the ground plane. Draw the perspective view of the pyramid. | L3 | 5 | 20 |