	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE **Department of Mechanical Engineering** 1st Internal Assessment 1st Semester	**Computer Aided Engineering Drawing** **(BCEDK103)-Version-B** Schedule: 10/11/2023 and 9.30am- 10.45am **Total Marks 30** Faculty: Dr.BH/Dr.YDC/Dr.RKS/GD/YKJ/SKG/COD/SB

Answer the Following Questions

Q#		Question Description	M	BTL	COs
1	a	Draw all the three views of a point P lying 30mm below HP 70 mm in front of VP and 40 mm from the RPP. Also state the quadrants in which it lies	08	L2,L3	1,2
		OR			
1	b	Draw the projection of the following points on the same XY line, keeping convenient distance between each projector. Name the Quadrants in which they lie. A - 30 mm above HP & 35 mm in front of VP. B - 35 mm above HP & 40 mm behind VP. C - 40 mm above HP & on VP. D - 35 mm below HP & 30mm in front of VP.	08	L2,L3	1,2
2	a	A line PQ 85 mm long has its end P 10 mm above the HP and 15 mm infront of the VP. The top view and front view of line PQ are 75 mm and 80mm respectively. Draw its projections. Also, determine the true and apparent inclinations of the line.	10	L2,L3	1,2
		OR			
2	b	A line AB 80mm long is inclined to HP at 30° and inclined to VP at 45°. The end A touches both HP & VP. Draw front and top views of line and determine their lengths. Also, measure the perpendicular distance of end B from both HP and VP.	10	L2,L3	1,2
3	a	A triangular lamina of 25mm side rests on one of its corners on VP such that the median passing through the corner on which it rests is inclined at 30° to HP and 45° to VP. Draw its projections.	15	L2,L3	1,2
		OR			
3	b	A square lamina of 40mm side rests on one of its sides on HP. The lamina makes 30° to HP and the side on which it rests makes 45° to VP. Draw its projections	15	L2,L3	1,2

	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE ***Department of Mechanical Engineering*** *2nd Internal Assessment* *1st Semester*	**Computer Aided Engineering Drawing (BCEDK103)** Schedule: 08/12/2023 and 9.30am– 10.45am **Total Marks: 30** Faculty: Dr.BH/Dr.YDC/Dr.RKS/GD/YKJ/SKG/CGD/SB

Answer the Following Questions

Q#		Question Description	M	BTL	COs
1	a	A pentagonal lamina of edges 25mm is resting on HP with one of its sides such that the surface makes an angle of 60° with HP. The edge on which it rests is inclined at 45° to VP. Draw its projections.	15	L2,L3	1,2
		OR			
1	b	A hexagonal lamina of sides 25mm rests on one of its sides on HP. The lamina makes 45° to HP and the side on which it rests makes 30° to VP. Draw its projections.	15	L2,L3	1,2
2	a	A square pyramid 35mm sides of base and 65mm axis length rests on HP on one of its edges of the base, which is inclined to VP at 30°. Draw the projections of the pyramid when the axis is inclined to HP at 45°.	15	L2,L3	1,2
		OR			
2	b	A square pyramid 35mm sides of base and 60mm axis length rests on HP on one of its corners of the base such that two base edges containing the corner on which it rests make equal inclination with HP. Draw the projections of the pyramid when the axis of the pyramid is inclined to HP at 40° and to VP at 30°	15	L2,L3	1,2

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	MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE **Department of Mechanical Engineering** 3rd Internal Assessment 1st Semester			**Computer Aided Engineering Drawing (BCEDK103)-Version-B** Schedule: 09/01/2024 and 9.30am- 10.45am **Total Marks: 30** Dr.BH/Dr. YDC/Dr. RKS/GD/YKJ/SKG/CGD/SB	
Answer the Following Questions					
Q#		**Question Description**	**M**	**BTL**	**COs**
1	a	A hexagonal pyramid 25mm sides of base and 50mm axis length rests on HP on one of its slant edges. Draw the projections of the pyramid when the axis is inclined to VP at 45°	15	L2,L3	1,2
		OR			
1	b	A hexagonal prism 25mm sides of base and 50mm axis length rests on HP on one of its edges. Draw the projections of the prism when the axis is inclined to HP at 45° and appears to be inclined to VP at 40°	15	L2,L3	1,2
2	a	A square prism base side 40mm and height 70mm has a full depth co-axial square hole of base side 20mm, such that edges of both the squares are parallel. Draw the isometric projection of the hollow prism.	15	L2,L3	1,2
		OR			
2	b	A hemisphere of diameter 50mm is centrally resting on top of a square prism of base side 60mm and height 30mm such that the curved surface of the hemisphere is touching the top face of the prism. Draw the isometric projections.	15	L2,L3	1,2