## 03GMEST103122403

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	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY	( S S )
	B.Tech Degree S1 (S) Examination May 2025 (2024 Scheme)	AMOLY UGA
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		HUHU
	Course Codes CMSCT103	
	Course Code: GMEST103	
	Course Name: ENGINEERING GRAPHICS AND COMPUTER AIDED DRAW	/ING
lax.	Marks: 60 Duration: 2 hou	ırs 30 minute
	Instructions: Retain Construction lines. Show necessary dimensions. Answer a question from each module. Each question carries 15 marks	iny ONE
	MODULE 1	
		Marks
1	A line MN 75 mm long has a top view of 65 mm and front view of 55 mm.	
	The end point M is 20 mm above HP and 10 mm in front of VP. Draw the	
	orthographic projections of the line, determine the true inclinations, apparent	01 (15)
	inclinations and locate its traces. Assume that the line is in the first quadrant.	
2	A line CD has one of its ends C 10 mm above HP and 20 mm infront of VP.	
	The front view of the line has a length of 55 mm and is inclined at 40 degrees	
	to the HP. The top view of the line has a length of 55 mm. Find the true length CO	1 (15)
	and true inclinations of the line and locate its traces. Assume that the line is in	(=0)
	the first quadrant.	
	MODULE 2	
		Marks
3	A pentagonal prism, side of base 30mm and axis 80mm is resting on a base	a. Ko
	corner on HP., with its slant edge inclined at 45° to HP and 45° to VP. Draw CO	2 (15)

A pentagonal pyramid has base edges of 30 mm and height 50 mm. The

pyramid is resting on HP on one of its base edges with its axis making an angle

of 45 degrees with HP and 40 degrees with VP. Draw the projections of the CO2

(15)

the projections of the solid.

pyramid.

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## MODULE 3

			Marks	
5	A cylinder of 60 mm height and 50 mm diameter is resting on HP on its base.			
	The cylinder is cut by a section plane perpendicular to VP that has an			
	inclination of 40 degrees to the HP and cuts the axis at a point 10 mm below	CO3	(15)	
	the top face. Draw the projections of the sectioned cylinder and the true shape			
	of the section.			
6	A right circular cone of base diameter 50 mm and height 60 mm is resting on			
	HP on its base. A section plane perpendicular to VP and inclined at 30 degrees	CO3		
	to HP cuts the cone bisecting its axis. Draw the development of the truncated	CO3	(15)	
	cone.			
MODULE 4				
			Marks	
7	A sphere of 70 mm diameter is kept centrally on top of a cylindrical slab of 60			
	mm diameter and 10 mm thickness. Draw the isometric view of the	CO4	(15)	
	combination of solids.			
8	A sphere of 25 mm radius is kept on top of a rectangular block. The block has			
	a length of 80 mm, width 60 mm and thickness 15 mm. The sphere is resting at			
	a point which is 30 mm each from two adjacent top edges. Draw the isometric			
	projection of the combination. Assume that the longer edges of the block are	CO4	(15)	
	perpendicular to X-Y line in the simple position top view and the sphere is			
	seen away from the observer in the isometric projection.			