Rol	I No. Total No. of Pages : 02	
Tot	al No. of Questions: 09	
	B.Tech.(2009-2010 Batches) (Sem1,2) ENGINEERING DRAWING AND COMPUTER GRAPHICS Subject Code: ME-102 Paper ID: [A0125]	
Tim	e: 3 Hrs. Max. Marks: 60	
INS	TRUCTIONS TO CANDIDATES :	
1.	SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.	
2. 3. 4. 5.	SECTION - B & C. have FOUR questions each. Attempt any FIVE questions from SECTION B & C carrying EIGHT marks each. Select at least TWO questions from SECTION - B & C. Assume missing data if any and clearly indicate it.	
SECTION-A		
1.	Do as directed:	
	(a) "In development of a cone and cylinder, the chord length between two successive points on the circumference is used for development, instead of the arc length". Is it a correct approach? Comment.	
	(b) Differentiate between right and oblique solid.	
	Fill in the blanks:	
	(c) If the top view of an object is 50 mm above line XY and its front view is 30 mm above XY the object is in theQuadrant.	
	(d) A plane perpendicular to both the vertical and horizontal plane is called	
	(e) is a regular polyhedron bounded by eight equal equilateral triangles.	
	(f) An object is cut by a plane perpendicular to the VP and inclined to the HP the True shape will be seen in the view.	
	(g) Isometric length / true length =	
	True / False	
	(h) When a line is inclined to HP, the top view of the line is to be drawn first.	
	(i) The auxiliary inclined plane (AIP) is inclined to HP and perpendicular to VP.	

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(j) Intersection of two surfaces gives point or line.

SECTION-B

2	(a) Arrow heads drawn on a cutting plane line indicates	(2)
	(b) Show the following lines schematically and explain their significance:	
	i) Dimension line	
	ii) Hidden line	(3)
	(c) What do you understand by scaling in engineering drawing? Differentiate be reducing and enlarging scales.	tween (3)
3	A straight line PQ 60 mm long makes an angle of 40° to the HP and 20° to the VP. is 30 mm in front of VP and 40 mm above HP. Draw the projection of the line PQ.	End P (8)
4	Draw the projections of the hexagonal prism base 30 mm and axis 50 mm long whe resting on the HP on a side of its base with the axis making an angle of 30° with the axis making 45° with VP.	
5	A pentagonal pyramid of base 35 mm and height 65 mm, rests with its base on HI that one of its edges is perpendicular to VP. A section plane parallel to V perpendicular to HP cuts the prism 20 mm from the corner nearest to the obs Draw the sectional front and top view.	P and
	SECTION-C	
6	A sphere of 45 mm diameter is kept on the top face of the square prism of base 4 and height 20 mm. Draw the isometric projections of the combined solid.	5 mm (8)
7	What are the uses of freehand sketching in engineering field? Describe the steps followed in sketching a circle or an ellipse.	to be (8)
8	Draw the development of the cube of side 30 mm, when one of the edges of its be parallel to the vertical plane.	pase is (8)
9	A vertical cylinder of 50mm diameter and height 70mm, is standing on its base on completely penetrated by a horizontal cylinder of 35mm diameter and 70mm long that their axis bisect each other at right angles and are parallel to VP. Draw the cur interpenetration in front view.	g such