P. Pages : 3 Time : Four Hours			GUG/W/16/ * 3 9 4 0 * Max. Mark		6 69 80
	Note	es: 1. 2. 3. 4. 5. 6.	Solve Q1 or Q2, 3 or 4, 5 or 6, 7 or 8, & 9 or 10. All questions carry marks as indicated. Due credit will be given to neatness and adequate dimensions. Assume suitable data wherever necessary. Retain the construction lines. Illustrate your answers wherever necessary with the help of neat s	sketches.	
1.	a)	Two fixed points F_1 and F_2 are 90 mm apart. Construct the locus of point P moving in the Same plane of F_1 and F_2 in such a way that the sum of its distances from the fixed points F_1 & F_2 is always same and equal to 120 mm Name the Curve.			8
	b)	A line A above I HP. Dra	AB has it's end A, 15 mm above HP and 10 mm in front of VP. The HP. The distance between the end projector is 50 mm. The line is i aw the projections and find inclination of line with VP and true len	e end B is 60 mm inclined at 25° to gth of line AB	8
			OR		
2.	a)	A whee on the j	el of diameter 60 mm rolls on a straight horizontal road. Draw the le periphery of the wheel for one revolution of the wheel if P is initial	ocus of a point P ly on the road.	8
	b)	The top is 50 m of line	view of 75 mm long line AB measures 65 mm while the length of m Its one end is 10 mm above HP & 15 mm in front of V.P. Draw AB and determine its inclination with HP & VP	it's front view the projections	8
3.	a)	A Semi at 45° te	circular thin plate of 60 mm diameter, rest on HP on its diameter, we by VP. The surface of plate is inclined at 30° to HP. Draw the project	which is inclined tion of plate.	8
	b)	A regul through	ar hexagonal plate 50 mm side is resting on one of it's corners in H that Corner is inclined at 40° to HP and 30° to VP. Draw the proje	IP. The diagonal ctions	8
OR					
4.		A cube diagona	of 50 mm long edges is resting on HP on one of it's corners, with our parallel to HP and inclined at 45° to VP Draw projection of cube.	one of the body	16
5.		A hexa triangul passing of Secti	gonal pyramid side of base 30 mm & Hight 75 mm is resting on HI lar faces with axis remaining parallel to VP. It is cut by A.V.P. mal through a point on axis 33 mm from apex. Draw TV Sectional FV ion Also draw the development of retained part of pyramid.	P on one of its king 30° with VP and true shape	16
OR					

A cone, diameter of base 60 mm and height 75 mm is resting on HP on one of it's generators with axis parallel to V.P. It is cut by a horizontal Section plane passing through

a point on axis 50 mm a way from apex. Draw front view and Sectional top view Also draw development of cut cone.

- Fig. Q. 7. Shows pictorial view of an object. Draw the following views.
 - i) Front view looking in direction x
 - ii) Side view looking in direction y
 - iii) To view

7.



8. Draw F.V, T.V. and right hand side view of the object whose isometric view is shown in 16 fig 8



Draw Isometric view of the object whose orthographic projections are given in fig 9.





9.

16

16

OR

16



10