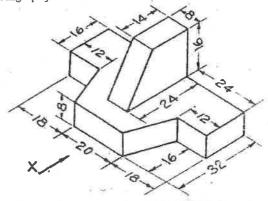
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O.P.Code: 23ME0302 R23 H.T.No.		Ш	
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)	':: PUTT	UR	
B.Tech I Year II Semester Supplementary Examinations De	cemeb	-202	5
ENGINEERING GRAPHICS			
(Common to CE, ME, CAD, CSM, CCC, CIC, CAI & CIA)	May	Mari	ks: 70
Time: 3 Hours (Answer all the Questions $5 \times 14 = 70 \text{ Marks}$)	HILDZE.	*******	20. 10
UNIT-I			
	CO1	1.6	14M
Construct an ellipse, with distance of the focus from the directrix as 30 mm and eccentricity as 2/3. Also draw normal and tangent to the curve at a	COT	Lo	14112
point 40 mm from the directrix.			-
Point 40 mm from the directive.			
The vertex of a hyperbola is 60 mm from its focus. Draw the curve, if the	CO1	1.6	14M
eccentricity is 3/2. Draw a normal and a tangent at a point on the curve, 75			
mm from the directrix.			
UNIT-II			
	CO2	L1	14M
3 Draw the projections of the following points, keeping the distance between	CO2	LI	F-414X
the projectors as 25mm on the same reference lines. A – 20mm above HP and 30mm in front of VP			-
B – 20mm above HP and 30mm behind VP.			
C – 20mm below HP and 30mm behind VP	9	100	
D – 20mm below HP and 30mm in front of VP			
E – On HP and 30mm in front of VP			
F – On VP and 20mm above HP			
G – Lying on both HP and VP	100		
OR			
4 A line NS 80mm long has its end N 10mm above HP and 15mm In front o	f CO2	L3	14M
VP. The other end S is 65mm above HP and 50mm in front of VP. Drav	/	(182)	
the projections of the line and Find its true inclinations with HP & VP.			
UNIT-III			
5 A cube of 40mm side is resting with a face on H.P such that	CO3	L6	14M
i) vertical faces are equally inclined to V.P.			
ii) one of its vertical faces is inclined at 300 to V.P.			
Draw its projections.			
OR			
6 Draw the projections of a hexagonal prism of base side 25mm and axi	s CO3	L6	14M
60mm long, when it is resting on one of its corners of the base on H.P. Th	е		
axis of the solid is inclined at 450 to H.P.			
UNIT-IV		- 2	
7 A pentagonal pyramid with edge of base 25 mm and axis 65 mm long, its	CO4	L6	14M
base is resting on HP. It is cut by a section plane, inclined at 600 to HP and	i		
perpendicular to VP it bisects the axis. Draw the projections and obtain the			
true shape of the section.			307.7

OR

8 A cone of base 50 mm diameter and height 65 mm rests with its base on CO4 L1 14M HP. A section plane perpendicular to VP and inclined at 300 to HP bisects the axis of the cone. Draw the development of the lateral surface of the truncated cone.

UNIT-V

9 Draw three views of the blocks shown pictorially in figure according to CO6 L6 14M first angle projection



Draw the isometric view of a hexagonal prism of base side 30 mm and axis CO5 L1 14M 70mm. The prism rests on its base on the HP with an edge of the base parallel to the VP.

*** END ***