Γick	et N	uml	ber:		T				T			Code No. : 11012 EG	03
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V Z	AS											ING (Autonomous), HYDERABAD caminations, May/June-2018	
				(-		-,-						Graphics-I	
								_			_	Mech. Engg.)	
Гim	e: 3	ho		Tota:	Anc	WOr	111	ana	ction	ic in	Da	Max. Marks: 70 rt-A and any FIVE from Part-B	
			11	oie.	Ans	wer 1		-				and the state of t	
	** **			11.0					,			= 20 Marks)	
								•				nd diagonal scale?	
2.		sting etch		h be	twee	n ali	gneo	l and	l un	idired	etic	onal system of dimensioning with the help of	
3.	bea	ars a	co		it rat							distance from a fixed point called theits perpendicular distance from a straight line	
1.	Sk	etch	an	appr	opri	ate e	llips	e of	majo	or axi	s 1	2 cm and minor axis 8 cm.	
5.										neasu		s 55mm. The line is in VP, its one end being	
6.	Aj	poir	nt D	is si	tuate	ed 40	mm	belo	ow I	HP an	id 2	20 mm in front of VP. Draw the projections.	
7.				ane j	paral	lel to	o VP	and	40	mm i	in i	front of it lying in the first quadrant by means	
8.	W	nat i	is th	e ma	ajor (	diffe	rence	e(s) 1	oetw	een (	Ort	hographic and Isometric projection?	
9.	W	hat a	are 1	he v	ario	us po	sitio	ns w	hicl	n a so	lid	can take with respect to the reference planes?	
10.						_					-	rallel to VP and 30 mm in front of VP. Draw e cylinder is 50 mm and height is 70 mm.	
								Par	t-B	(5 ×	10	= 50 Marks)	
11.	a)	Wh	at i	s the	scal	e fac	tor?						[4
	b)	rec	tang	le of	8 sc	.cm.	Cal	culat	e RI	ofth	ne s	8 hectare is represented on a map by a simple scale. Draw diagonal scale to read single meter. hectare = 10,000 sq. meters).	[6
12.	a)	Wł	nat a	re di	iffer	ent ty	pes	of c	yclo	idal c	ur	ves, explain them in brief?	[4
	b)	of Dra	a po	oint	on tl	ne ci	rcun	ıfere	nce	of th	e i	ner circle of 175mm diameter. Draw the locus rolling circle for its one complete revolution. a point 100mm from the centre of the directing	[6

13. a) The shortest distance of the point E to intersection line of HP and VP is 36 mm and point

and determine its inclinations with the HP and VP.

is 20 mm above HP. Draw the front and top views, if the point is in second quadrant.

b) The top view of a 75mm long live AB measures 65mm while length of its front view is

50mm. Its one end A is in HP and 12mm in front of VP. Draw the projections of AB

[4]

[6]

14.	a)	Write the classifications of the planes with respect to reference planes.	[4]
	b)	A circular plane, 50mm diameter appears as an ellipse in the front view, having its major axis 50mm long and minor axis 30mm long. Draw its top view when the major axis of ellipse is horizontal.	[6]
15.	a)	Draw the projection of a triangle prism of side 20 mm and axis 35 mm, if it is resting on HP with its axis parallel to both HP and VP and in front of VP.	[5]
	b)	Draw the projections of the cube of side 50 mm when it rests on the ground on one of its corner and a face containing that corner is inclined at 30° to the ground and perpendicular to VP.	[5]
16.	a)	Explain the elements of dimensioning with the help of sketches.	[5]
	b)	Draw a parabola with its base equal to 180 mm and axis equal to 70 mm and mark focus and directrix on it.	[5]
17.	A	nswer any two of the following:	
	a)	The end projectors of a line PQ are 50 mm apart, while those drawn for its H.T. and V.T. are 90 mm apart. The H.T. is 40 mm in front of the V.P. and V.T. is 80 mm above the H.P. Draw projections of PQ if its end P is 10 mm above the H.P. Also determine its true length and inclinations with the reference planes.	[5]
	b)	A square lamina of 40 mm 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.	[5]
	c)	A Cone having 50 mm diameter and 70 mm long axis has a point of its base circle in the VP, such that the axis is inclined at 45° to the VP and parallel to the HP. Draw its projections.	[5]
		and the many many the large V or foliation of the Hallon Syr on growing a secondary at the	

