Q.P. Code: 20ME0301a

R	eg. No:						80								
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						(AU	TONC	OMO	JS).						
	B.Tech	I Year	r I Sen	neste	r Re	gular	& Su	pple	ment	ary E	xami	natior	ns May-2	022	
					ENC	GINEI	ERINO	G GR	APH	CS					
			(Elect	ronics	and (Comm	unicat	tion E	ngine	ering)				
Ti	me: 3 hours												Max.	Marks	s: 60
				(Ans	wer a	ll Five	e Units	5 x 1	2 = 6	0 Ma	rks)				
					1.5 195		UNI	Г-П							
1	a Construc	t an ell	lipse h	aving	majo	r axis	is equ	ual to	100	mm a	ind the	e mino	r axis is	L3	6M
	equal to 70 mm. Use the concentric circle method.														
	b Draw a p	arabola	a havir	ng a d	listanc	e of :	50 mm	h betv	veen t	he for	cus ar	nd direc	ctrix and	L6	6M
	identify normal and tangent to the parabola at a point 35 mm from the focus.								. 2						
							OF	2						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2	Construct an	1 ellips	e when	n the	distan	ce bet	tween	the fo	ocus a	nd di	rectrix	k is 35	mm and	L3	12M
	eccentricity is 3/4. Also draw the tangent and normal to any point on the curve.														
							UNIJ	[-II							
3	Draw the projections of the following points, keeping the distance between the											veen the	L6	12M	
	projectors as 25mm on the same reference lines.														
	A – 20mm a	bove H	IP and	30mn	n in fr	ont of	VP								
	B – 20mm a	bove H	IP and	30mm	n behi	nd VF)								
	C – 20mm b	elow H	IP and	30mn	n behi	nd VI	2								
	D – 20mm b	elow H	IP and	30mm	n in fr	ont of	f VP						222	0	
	E – On HP a	nd 30n	nm in f	front c	of VP									17.1	
	F – On VP a	nd 20m	nm abc	ove Hl	2										
)	G – Lying o	n both 1	HP and	1 VP										and and base gro	tori tori tori tori
							OF	2							
4	A line AB c	of 100n	nm len	gth is	incli	ned at	an an	gle o	f 300	to HF) and	45° to	VP. The	L6	12M
	point A is 15	imm ab	oove H	P and	20m	n in fi	ront of	VP. J	Draw	the pr	ojecti	ons of	the line.	1	
		2				1013	UNIT	-III							
5	A regular h	exagon	al pla	ne of	30 n	nm sie	de has	acc	orner	on H	P, and	d its si	urface is	L6	12M
	inclined at 4	45° to	HP. D	raw th	he pro	ojectio	ons, w	hen t	he dia	igonal	l throu	ugh the	e corner,		
	which is on	HP mal	kes 30 ⁶	with	VP.										
							OF	2							
6	A pentagonal prism of base side 30 mm and axis 60mm is resting on one of its												ne of its	L6	12M
1	rectangular faces on HP, with the axis parallel to VP. Draw its projections.														
							UNIT	-IV							
7	A cube of si	de 40 n	nm is 1	resting	g on H	IP on	one of	its fa	ices, v	with a	vertic	al face	inclined	L6	12M
;	at 300 to VF	. It is a	cut by	a sect	ion pl	ane ir	nclined	l at 45	5^0 to F	IP and	d pass	ing thr	ough the		
;	axis at 8 mm	1 from	the top	o surfa	ice. D	raw th	ne proj	ection	ns of t	he so	lid an	d also s	show the		
1	true shape of	f the se	ction.				192								

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8 A square prism of side of base 40 mm and axis 80 mm long, is resting on its base on L6 12M HP such that, a rectangular face of it is parallel to VP. Draw the development of the prism.

UNIT-V

9 Draw the isometric projection of a pentagonal prism of base side 35 mm and axis L6 12M 60mm. The prism rests on its base on the HP with an edge of the base parallel to the VP.

OR

10 Draw three views of the blocks shown pictorially in figure according to first angle L6 12M projection.



*** END ***

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 - WW has all alload on the line for

Chao λ is of 105 at a taggin in method at an angle of 300 \times HP and Σ^{2} to Σ^{2} . The state λ is 15 cm above HP and 20mm in freed of Σ^{1} . The state λ is 15 cm above HP and 20mm in freed of Σ^{1} .

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