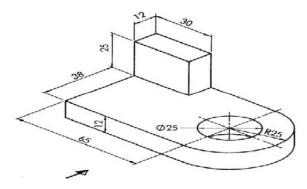
Hall	Ticket Number :												٦
Code	e: 4G513			·							R-	14	
	B.Tech.	l Yea	r Supp	oleme	entary	Exa	min	atior	ns N	larch	2021		
					ering								
				-	o EEE,			-)				
Mc	ax. Marks: 70											: 3 Hou	rs
	Answer all five u	nits by	choosi	ng one	e quest	ion fi	rom	each	unit	(5 x 1	4 = 70 M	arks)	
					INIT-I	• • •							
1		lakan	ام مائد						ما:ام ا		а <i>Б</i> Онана		
1. Draw a hyperbola when the distance between its focus and directrix is 50mm. <i>A</i> tangent and a normal at a point 70mm from the directrix.										Also dr	aw		
	tangent and a no	innai a	t a poir			the d	necu	IX.					
0	-			<i>.</i> .	OR	_			.,				
2.	To construct regu	ilar pen	tagon o	of given	side 2	omm	by us	ing In	SCrit	be circl	e method		
	UNIT–II												
3.		A line AB is 30mm long and inclined at 30° to VP and parallel to HP. The end A of the lin											
	is 15mm above I	HP and	20mm	in fror		. Dra	w its	proje	ctior	าร.			
					OR								
4.	A line AB 65mm	•											
	is 40mm above				ont of th	e VP	. Dra	aw the	e pro	ojectior	ns of AB a	and sho	w it
	inclinations with the HP and the VP												
				U	NIT-III								
5.	•	A thin rectangular plate of 60x40mm size has its shorter edge on HP and inclined at 300 t											
	VP. Draw the projections of the plate when the top view is a square of 40mm side												
					OR								
6.	A circular plate	•	•							•••		•	
	front view, having its major axis 50mm long and minor axis 30mm long. Draw its top view when the major axis of the ellipse is horizontal.												
		axis UI				iai.							
_					NIT-IV								•,
7.	Draw the project				base	30mn	n dia	meter	and	axis	50mm lor	ng wher	ו וt ו
	resting on HP or		ns ba	58.									
					OR								

- 8. a) Draw the isometric view of a pentagon of 50mm side, plane in vertical and horizontal
 - b) Draw the isometric projections of a circle of 50mm diameter with its plane horizontal and vertical

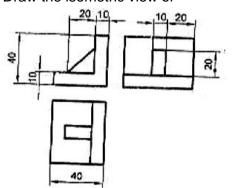
UNIT-V

9. Draw the Front View, Top View and Side View of



OR

10. Draw the isometric view of



Hall Tick	et Number :											1		
Code: 4GC14									-14					
B.Tech. I Year Supplementary Examinations March 2021														
Mathematics-I (Common to All Branches)														
(Common to All Branches) Max. Marks: 70 Answer all five units by choosing one question from each unit (5 x 14 = 70 Marks) *********														
1.	Find the orthog	ional t	raiaa	torio		UNIT		ofou	r\/00	r ⁿ –	$-a^n o o$	0.0		14M
		Junari	ajec	lone	5 01 1	OF	•		1065	/ _	- <i>u</i> co	15 m "		14101
2.	Solve $(D^3 + 1)$	$y = e^{-1}$	$x^{-x} + c$	os(2:	x – 1)									14M
					ι	JNIT	-11							
3.	Verify Rolle' the	eorem	for	f(x)	$=e^{-x}$	sin <i>x</i>	in [(), <i>f</i>].						14M
						OF			_					
4.	Verify the Me remainder up to				=1.	or f		(1-2	$(x)^{\frac{5}{2}}W$	ith L	agrar	ıge's	s form	n of 14M
5.	Trace the curve	e y ² (2	2a - x	x) = x										14M
6.	Change of or	der o	f inte	egrat	ion a	OF and		e ev	/alua	ite tl	he do	buble	e inte	gral
	$\int_{0}^{1} \int_{x^2}^{2-x} xy dxdy$													14M
_				_		JNIT-								
7.	Find the Laplac			-										
	$f(t) = \begin{cases} 1, & 0 \\ -1, & 0 \end{cases}$	a/2 <	t < a	An	df(t	+ <i>a</i>)	= f(t).						14M
			-			OF	R							
8.	Solve $y^{11} + 2y^1$ technique.	+ 5 y =	$= e^{-t}$,	y(0)	= 0,	y^1	(0) =	1	usir	ng l	_aplac	ce 1	transf	orm 14M
_						JNIT								
9.	Find the direct	ctional	der	ivativ	/e 0	f 2 <i>x</i>	$y + z^2$	at	(1,-1	,3) i	n the	dir	ection	of
	$\overline{i}+2\overline{j}+3\overline{k}$.					~								14M
10.	Verify Gauss	divora		the	orom	OF for		r ³		2 m ²	2,,;,,	- - - -	kon r	Wer
	the surface of o	-			y the				-					14M