21	0 210	210	210	210	210			
Reg	istration No :							
Total N	umber of Pages :	02			1	B.Te		
21	21 °6th	Semester ² Regular / HIGH FREQUE BRANC Max M Time Q.CC	NCY ENGINE H:ECE, ETC Marks:100 e:3 Hours DDE:F208	EERING ;	210	T6I1		
Answ 21		Part-1) which is co) ₂₁₀ fror	mpulsory, ar n Part _t III.	ny EIGHT from 1	Part-II and any	TWC		
21		figures in the right						
			Part- I					
Q1	Only Short Answ	er Type Questions (A	Answer All-10))		(2 x		
a)	Differentiate betwe	een Magnetron and kl	ystron.					
b)	Define TWT and E	BWO.						
c)	Write down the pro	operties of S-Matrix.	210	210	210			
d)	•	of E, M hybrid? (with r	,					
e)		I PRFs in Doppler rada						
f)		tching in angle tracking	g systems.					
g)	•	n by varactor diode?						
h)		easurement of VSWR		210	210			
4) j)	•	fter in microwave com nitations of convention	•	210	210			
			Part- II					
Q2	Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x							
a)		eld amplifier and why						
b)		about Gunn₂Diode.	210	210	210			
c)		e transmit time effect i						
d)	What do you mea	n by coupler paramete	er? Explain its t	ypes in detail.				
e)	T. Determine the	of 32 mW is fed into powers in the remaind loads and power deli	ning ports whe	n other ports are	terminated by			
_f)	Discuss Rat ₂ Race	junction/ Hybrid junct	ion in detail.	210	210			
g)	Discuss the const	ruction and operation	of Gyrator with	proper diagram.				
h)	Define and explain	n Bunching process w	ith neat diagran	n.				
i)	Explain reflex klys	tron in single cavity w	ith near diagrar	m and proper exa	mple.			
j)	gap of 1mm. The	on operates at 5GHz amplitude of microwa the buncher cavity a	ve input is 100	V. Calculate the t				
k)	2 10	sic principles and ope	210	210				
I)	What do you mea	n hy dolov line concoll	om? Evoloin in	dotail				

210		210	210	210	210	210	210	210
0.10		0.1.0	Only Long Answer					0.10
210	Q3	210	Explain W. to Ert in at			diagram.	210	(16) ²¹⁰ (16)
	Q4 Q5		Write down about all the ferrite devices. Discuss frequency modulated continuous wave radar in detail.					
210	Q6	210	Define radar range detail.				ambiguities in	(16) (16) ²¹⁰
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210