		EEcT-405-E (Opt. I)			
Time : Three Hours] [Maximum Marks : 100					
Not		attempt <i>Five</i> questions in all, selecting at least <i>one</i> uestion from each Unit.			
Unit I					
1.	Magi	suitable block diagram explain the working of metron. Also explain the bunching process in metron.			
2.	(a) (b)	Explain with suitable reasons why we cannot use vacuum tubes at high frequencies. 10 Mention characteristic features and applications of Microwaves. 10			
Unit II					
3.	• Write short notes on the following:				
	(a)	Parametric Amplifier			
	(b)	IMPATT DIODE. 10×2			
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MICROWAVE AND RADAR ENGG.

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		V-I characteristic of TRAPTT Diode.	10		
	(b)	Write a short note on Masers.	10		
Unit III					
5.	(a)	What do you understand by TE, TM, TEM modin rectangular wave guide.	des 7		
	(b)	For what purpose we are using resonators? Expl	•		
	(0)	different types of resonators with their resonat			
		frequency.	13		
		requeriey.	10		
6.	Write	e short notes on the following:	20		
	(i)	Attenuator			
	(ii)	Isolators			
	(iii)	Directional Coupler.			
Unit IV					
7.	For v	what purpose we are using CW Radar ? Explain	the		
	working of CW radar with suitable diagram. What are				
	limita	ations of CW Radar and how can they be remove	d?		
		•	20		
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8.		e short notes on the following:			
	(i)	Non-coherent MTI radar	20		
	(ii)	Radio aids to navigation.	4 0		
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With suitable diagram explain the construction,

4. (a)