7 M

Code: ECMC2T3

I M. Tech - II Semester - Regular Examinations - December 2013

MICROWAVE NETWORKS AND MEASUREMENTS (MICROWAVE & COMMUNICATION ENGINEERING)

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Duration: 3 hours	Marks: 5x14=7	0
Answer any FIVE questions.	All questions carry equal mar	ks
1. a) Draw and explain of equinotequinotequinotequinotequinote	•	7 M
b) Explain about impedance	e and admittance matrices.	7 M
 a) Explain about Transition Waveguide. 		7 M
b) Write the differences bet double- stub tuning.	ween single- stub tuning and	7 M
3. a) Draw and explain of Mag	gic Tee, and calculate its S-ma	trix. 7 M
b) Design Multi- Hole Directions working in brief.	ctional coupler, and explain its	
4. a) Explain in detail the Quar phase shifters.	rter- wave and Half- wave plat	te 7 M
b) Explain the working of fi	ixed and variable attenuators as	nd

write their applications.

5	. a)	Explain Rectangular and Cylindrical cavities, and its equivalent circuits.	7 M
	b)	Explain about Stepped- line Low pass and Coupled lir filters.	ne 7 M
6.	. a)	Explain wave analysis of periodic structure in loaded Transmission line.	7 M
	b)	Explain Floquet's theorem and explain Radiometry.	7 M
7.	a)	Explain step by step procedure for the measurement of attenuation using microwave test bench set-up.	7 M
	b)	Explain about the measurement of RF voltage.	7 M
8.	a)	Explain the working of spectrum analyzer with block diagram, and write its applications.	7 M
	b)	Explain Scalar and Vector Network analyzer with neat block diagrams.	7 M