Code: ECMC1T4

I M. Tech - I Semester-Regular Examinations-February 2016

MICROSTRIP COMPONENTS & MICROSTRIP ANTENNAS (MICROWAVE & COMMUNICATION ENGINEERING)

Duration: 3 hours Answer any FIVE questions. All questions ca	Max. Marks: 70 arry equal marks
1.a) Explain in detail about the modes of the p practical micro strip line.	ropagation of 7 M
b) Write about micro strip capacitive evaluat	tion. 7 M
2. a) Explain the design of inductors and capac	citors. 7 M
b) Explain about planar circular spiral induc	etor. 7 M
3. a) Explain various micro strip antenna conf their excitations techniques.	figurations and 7 M
b) Write about micro strip terminations.	7 M
4. a) Explain vector potential approach.	7 M

b) Determine bandwidth, directivity, gain and losses of	
rectangular micro strip antenna.	7 M
5. a) Explain the procedure to determine radiation pattern of	of
circular disc antenna.	7 M
b) Write the applications of circular micro strip antenna.	7 M
6.a) Explain in detail about circularly polarized antennas.	7 M
b) Compare the slot antennas with pitch antennas.	7 M
7.a) Explain the losses of circular disc antenna.	7 M
b) Explain about probe coupling.	7 M
8. a) Explain series feed for one dimension.	7 M
b) Explain combined feeds.	7 M