Code: ECMC2T4

I M. Tech-II Semester-Regular Examinations-August 2014

EMI/EMC (MICROWAVE & COMMUNICATION ENGINEERING)

Duration: 3 hours Marks: 5x14=70 Answer any FIVE questions. All questions carry equal marks 1 a) Explain the effects of EM radiation on daily life. 7 M b) What are the effects of Electromagnetic radiation on human body. 7 M 2 a) Explain briefly about manmade noise. 7 M b) What is ESD? And explain how to protect the equipment from ESD? 7 M 3 a) What is passive inter modulation? 7 M b) Explain the transients in power supply lines. 7 M

4 a) What is anechoic chamber; with a neat diagram expl	ain
the testing of equipment.	10 M
b) Explain the drawbacks of the OATS.	4 M
5 a) Differentiate the terms conducted interference and Ra Interference.	adiated 7 M
b) Explain the design regulations of power line filters.	7 M
6 a) What is a potential? And explain potential difference circuits.	in 7 M
b) Draw and explain various types of grounding and bottechniques.	nding 7 M
7 a) Explain the method of multiple shielding and derive	the
necessary equation for efficacy.	10 M
b) What are the different types of protecting equipment	t's
available other than shielding.	4 M
8 a) Explain EMC standards reference to civilian.	7 M
b) Explain how to choose suitable components for emis	sion
free circuit.	7 M