8 M

Code: 17ECMC1T6A

I M.Tech-I Semester-Regular/Supplementary Examinations December-2018

EMI/EMC (MICROWAVE & COMMUNICATION ENGINEERING)

Duration: 3 hours Max. Marks: 60 Answer the following questions.

- 1. a) Write a brief description on Electrostatic Discharge. 8 M
 - b) Show how celestial bodies act as a source of EMI. 7 M

(OR)

- 2. a) Explain the Biological effects of Radiation. 8 M
 - b) Write about Lightning Discharge. 7 M
- 3. a) Discuss in detail Common mode coupling and differential mode coupling?
 - b) Explain the effects of Transient sources? 7 M

(OR)

4. a) Discuss about emissions related to cables and their Coupling.	8 M
b) Write about Inductive and capacitive coupling.	7 M
5. a) Define the terms grounding and shielding along with their advantages.	8 M
b) Write about the material attributes that help in shield and explain.	ing 7 M
(OR)	
6. a) Explain how devices can be protected from surges ar transients.	nd 8 M
b) Define Murphy's Law and discuss about Low freque Magnetic shielding.	ency 7 M
7. a) Explain the need to meet EMI standards.	8 M

(OR)

Class A and Class B digital devices.

b) Compare FCC and CISPR conducted emission limits for

7 M

- 8. a) Describe about open area test measurement for EMI and its limitations. 8 M
 - b) Explain how EMI testing will be done using TEM cell. 7 M