

Code: **ECMC2T2**

**I M.Tech - II Semester - Regular Examinations – AUGUST 2016**

**WIRELESS COMMUNICATIONS AND NETWORKS  
(MICROWAVE & COMMUNICATION ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

1. a) Explain Trucking and grade of Service in Cellular Systems. 7 M  
b) Explain the use of Cell Splitting and cell sectoring. 7 M
2. a) Explain FDMA, bring out the features of FDMA. 7 M  
b) What is Packet Radio? Explain the Pure ALOHA Protocol. 7 M
3. a) Explain the “Packet Switching”. 7 M  
b) List out the difference between wireless and fixed telephone networks. 7 M
4. a) Explain the networks services part of SS7. 7 M  
b) List out some wireless data services and explain them. 7 M

5. a) Explain the operation of mobile IP. 7 M
- b) Mention the important capabilities of WML Scripts. 7 M
6. a) Explain Wireless LAN Technologies. 7 M
- b) Explain the “Narrow band Microwave LAN”. 7 M
7. a) Draw Bluetooth Protocol stack and explain each of the elements. 7 M
- b) Explain about Logical Link control and adaption Protocol. 7 M
8. a) Explain about mobile application Protocols. 7 M
- b) Explain the SMS Scheme in GSM. 7 M