Reg. No. | | | | | | | | | | | | |

Question Paper Code : 63192

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Eighth Semester

Electronics and Communication Engineering

EC 1451 – MOBILE AND WIRELESS COMMUNICATION

(Regulations 2008)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Why are linear modulation techniques attractive for wireless communication systems?
2. What are the special features of frequency hopping spread spectrum systems?
3. What are the features of IPv6?
4. Compare IMT 2000 with UMTS.
5. What is meant by peer-to-peer network?
6. Define Location Aided Routing.
7. Name two types of Power Saving mechanisms.
8. What is a challenge response time?
9. Distinguish GloMoSim from NS2.
10. What is key performance parameters used to evaluate any routing protocol in wireless networks?

PART B — (5 × 16 = 80 marks)

11. (a) Explain working model of Spread spectrum modulation technique also mention the differences between DSSS and FHSS modulation technique.

Or

(b) Compare and contrast between various multiple accesses techniques used in wireless networks.

12. (a) Explain the IEEE 802.11 standard in detail.

Or

(b) Explain in detail about

(i) Wireless LAN. (5)

(ii) Wireless MAN. (5)

(iii) Bluetooth. (6)

13. (a) Explain in detail about any two Mobile routing protocols with neat sketch.

Or

(b) Explain in detail about any two Mobility models used in wireless networks.

14. (a) Illustrate the issues and challenges of mobile Networks.

Or

(b) Explain in detail about the Security issues.

15. (a) Describe in salient features of Opnet and GloMosim. Discuss their applications.

Or

(b) Explain the features of NS2 and describe an application of NS2.
