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**Question Paper Code : 51231**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Eighth Semester

Electronics and Communication Engineering

EC 1451 — MOBILE AND WIRELESS COMMUNICATION

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is hopping sequence?
2. Define Handover.
3. Define ALOHA.
4. Define wireless routing protocol.
5. What is meant by peer-to-peer network?
6. Define Location Aided Routing.
7. What is the need for Network Security?
8. Define Mobile IP.
9. What is Glomosim?
10. Define AODV.

PART B — (5 × 16 = 80 marks)

11. (a) Briefly explain the different types of Linear Modulation Techniques.

Or

- (b) Explain in detail about

(i) TDMA

(8)

(ii) FDMA

(8)

12. (a) Explain in detail about protocols for 3G and 4G cellular networks.

Or

(b) Discuss in detail about

(i) CSMA (8)

(ii) Wireless LAN (8)

13. (a) Explain in detail about Ad-hoc networks and Ad-hoc routing.

Or

(b) Explain in detail about different types of Mobility routing protocols.

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

Or

(b) Explain in detail about Security issues.

15. (a) Design and evaluate the performance of various transport protocols of mobile using network simulator.

Or

(b) Design and evaluate the performance of routing protocols of wireless networks using network simulator.