Reg. No. ☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 41231

B.E. / B.Tech. DEGREE EXAMINATION, MAY/JUNE 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.   Define Run property in spreading PN sequence?

2.   Define Doppler Effect.

3.   What are the features of IPv6?

4.   Compare IMT 2000 with UMTS?

5.   Define location aided routing.

6.   What is meant by point mobility?

7.   List out the applications of VoIP.

8.   Mention the Security issues in mobile application.

9.   What are the features of GloMoSim?

10. What are the merits and demerits of NS2 software?

PART B — (5 × 16 = 80 marks)

11. (a) (i)   Explain in detail about SDMA technology with neat sketch.   (8)

         (ii) Explain in detail about Linear modulation technique with neat
               diagram.   (8)

                                    Or

     (b) Explain in detail about cellular communication and Handoff strategies
          with neat block diagram.   (16)

12. (a) (i) Describe in detail about Mobility management in cellular networks with neat diagram. (8)

    (ii) Write short notes on IPv4. (8)

Or

(b) Explain in detail about Wireless Media access techniques with neat diagram. (16)

13. (a) Explain in detail about any two Mobile routing protocols with neat sketch. (16)

Or

(b) Explain in detail about any two Mobility models used in wireless networks. (16)

14. (a) Explain in detail about Mobile IP and Ad-hoc networks with neat sketch. (16)

Or

(b) (i) Describe in detail about issues and challenges of mobile networks. (8)

    (ii) Write short notes on Energy awareness computing. (8)

15. (a) Explain in detail about designing and evaluating performance of various transport Protocols with OPNET simulator.

Or

(b) Discuss about NS2 simulation for designing and evaluating performance of different routing protocols. (16)

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