Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 80598

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

Sixth Semester

Computer Science and Engineering

IT 6601 — MOBILE COMPUTING

(Common to Information Technology)

(Regulations 2013)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   What are the limitations of Mobile computing?

2.   What are the different Random Assignment Scheme in MAC?

3.   Define COA

4.   Illustrate the use of BOOTP protocol?

5.   Write about the supplementary services in GSM?

6.   What is multicasting?

7.   Outline the concept of RTT?

8.   Compare and contrast MANET Vs VANET

9.   Define POS.

10. Differentiate E-Commerce and M-Commerce.

PART B — (5 × 16 = 80 marks)

11. (a)   Differentiate between FDMA, TDMA and CDMA.   (16)

Or

     (b)   (i)   Explain the Distinguishing features of various generations of
                 wireless networks.   (8)

           (ii) Describe the applications of Mobile computing.   (8)

12. (a) Explain about the Key mechanism in Mobile IP. (16)

Or

(b) Give the comparison of various TCP advantages and Disadvantages in Wireless networking. (16)

13. (a) (i) What are the functions of authentication and encryption in GSM? How is system security maintained. (8)

   (ii) Explain in detail about the handovers of GSM. (8)

Or

(b) (i) Explain the functions of GPRS protocol stack with a diagram. (8)

   (ii) Explain in detail about UMTS architecture. (8)

14. (a) Explain the Traditional Routing Protocols. (16)

Or

(b) (i) What are Multicast routing protocols. (8)

   (ii) What are reactive and proactive protocols? Specify its advantages and disadvantages. (8)

15. (a) (i) Compare and contrast the various Mobile OS. (10)

   (ii) Discuss the applications of M-Commerce. (6)

Or

(b) (i) Explain Mobile Payment Models and security issues. (10)

   (ii) What is RFID? Explain few applications in which RFID is useful. (6)