Code: IT7T3

IV B.Tech - I Semester – Regular / Supplementary Examinations November 2016

MOBILE COMPUTING
(INFORMATION TECHNOLOGY)

Duration: 3 hours   Max. Marks: 70

Answer any FIVE questions.   All questions carry equal marks

1. Explain in detail about Mobile Computing Architecture.

14 M

2. a) Write a short notes on: 8 M
    i) Smart Cards
    ii) Smart Labels
    iii) Smart Token

   b) Explain limitations of mobile devices.   6 M

3. a) Explain Radio Interfaces of GSM.   7 M

   b) Elaborate various types of calls handled by a GSM network.

7 M

4. a) Explain in detail about Frequency Hopping Spread
      Spectrum.   8 M

Page 1 of 2

b) Compare and Contrast SDMA, TDMA, FDMA. 6 M

5. a) Describe the working of Mobile IP. 7 M

   b) Explain the fields of the header in ICMP messages. What
      are the uses of ICMP messages on the Internet? 7 M

6. Explain about usage models for synchronization in Mobile
   Applications. 14 M

7. a) Discuss the applications of MANETs. 7 M

   b)Write a short notes on Wireless Sensor Networks. 7 M

8. Explain briefly about IEEE802.11 protocol layers. 14 M