

**I M.Tech - II Semester - Regular/Supplementary Examinations  
JULY 2017**

**MOBILE COMPUTING  
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Max Marks: 70

Answer any FIVE questions. All questions carry equal marks

1. a) Discuss the limitations and novel applications of mobile computing. 8 M
- b) Draw the architecture of Mobile computing. 6 M
2. a) Explain the RSS module components of GSM architecture. 8 M
- b) What is an handover, discuss various handover mechanisms. 6 M
3. a) What is the need of Mobile-IP? Discuss the Packet delivery in Mobile-IP. 7 M
- b) What is DHCP? Discuss briefly. 7 M

4. a) I-TCP does not preserve the TCP end-to-end semantics.  
Justify your answer. 8 M
- b) Discuss TCP over 3G mobile networks. 6 M
5. a) What are the advantages of hoarding data at mobile devices? 6 M
- b) Explain context aware computing. 8 M
6. a) What is communication Asymmetry? Discuss. 6 M
- b) Compare push and pull based mechanisms. 8 M
7. a) What is MANET? What are its properties? 7 M
- b) What is reactive routing? Explain DSR routing protocol. 7 M
8. a) Draw the architecture of Bluetooth. Discuss various layers. 8 M
- b) Write short notes on Android and Symbian operating systems. 6 M