

Code: IT7T3

IV B.Tech - I Semester – Regular Examinations – November 2015

**MOBILE COMPUTING
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

1. a) With a neat sketch explain the architecture of mobile computing. 8 M
- b) Explain applications of mobile computing system. 6 M
2. a) What is reuse factor? Explain whether a low (or) a high reuse factor is better. 7 M
- b) Briefly describe about handheld pocket computers. 7 M
3. a) Explain the functioning of network and switching subsystem (NSS) and its registers in GSM cellular system. 8 M
- b) Explain in detail about radio interfaces of GSM. 6 M
4. a) Compare and contrast between 3G and 4G Communications. 7 M

- b) Explain the overview of WiMAX IEEE 802.16e MAC layer and the functionalities. 7 M
5. a) Give the working of mobile IP. Explain features of discovery, registration and tunneling features of mobile IP. 7 M
- b) Briefly discuss about packet delivery in mobile IP network layer. 7 M
6. a) Explain in detail about usage models for synchronization in mobile application. 8 M
- b) Explain in detail about mobile agents design. 6 M
7. a) Explain in detail about MANET Infrastructures Architecture. 8 M
- b) Briefly discuss about security in Ad-hoc networks. 6 M
8. a) What are the different types of inter frame space (IFS) used by IEEE802.11 protocol? Explain their purpose. 8 M
- b) Briefly discuss about wireless application protocol (WAP). 6 M