

B.E.(with Credits)-Regular-Semester 2012-Computer Science and Engineering Sem VII  
**BE-CSE 704-Elective-I : Mobile Computing**

P. Pages : 2

Time : Three Hours



**GUG/W/16/6539**

Max. Marks : 80

- Notes :
1. All questions carry equal marks.
  2. Illustrate your answer wherever necessary with the help of neat sketches.
  3. Due credit will be given to neatness and adequate dimensions.
  4. Assume suitable data wherever necessary.

1. a) What are the limitations of wired communication. 6
- b) With neat diagram. Explain GSM system architecture and explain about various entities in GSM. 10

**OR**

2. a) Explain Handovers in GSM. 8
- b) Explain following signal propagation effects. 8
- i) Reflection
- ii) Scattering
- iii) Diffraction
3. a) How "Hidden and exposed terminals" and "Near and far terminal" problem resolved by MACA. 8
- b) Explain the following TDM.
- i) fixed TDM 2
- ii) Slotted TDM 3
- iii) Reservation ALOHA 3

**OR**

4. a) What is the basic purpose of DHCP? How DHCP used as support of mobile IP. 8
- b) Explain how registration of Mobile Node takes place in mobile. 8
5. a) Explain traditional TCP in detail. 8
- b) Compare snooping TCP and Indirect TCP. 8

**OR**

6. a) Explain 'Hoarding technique' in detail. 8
- b) Discuss the client server computing with adaptation. 8
7. a) Describe selective tuning technique (Indexing Technique) in detail. 8
- b) Explain pull-based and push based data delivery mechanism. 8

**OR**

8. a) What is MANET. Explain their properties. 8
- b) Explain any two routing algorithm in mobile Ad hoc network. 8
9. a) Explain all layers in wireless Application with neat sketch. 8
- b) Discuss user scenario of Bluetooth. What is 'Pico-net'? 8

**OR**

10. a) Write a note on J2ME in detail. 8
- b) How link management takes place in Bluetooth. 8

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