

**Code No: 45-R6-R7**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**MCA IV Semester Supplementary Examinations January 2010**

**MOBILE COMPUTING**

**Time: 3 hours**

**Max.Marks:60**

**Answer any FIVE questions**

**All questions carry equal marks**

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1. Explain about the radio interface of GSM?
2. a) Explain about multiple access with collision avoidance  
b) Differentiate between MACA& SAMA
3. What is DHCP protocol? What is the purpose of it? Explain the basic DHCP configuration?
4. Describe indirect TCP. Explain the modifications of indirect TCP as the selective repeat protocol. What are the advantages and disadvantages of indirect TCP?
5. a) Discuss the transactional model of database?  
b) Write short notes on
  - i) Cache access protocols
  - ii) Prefetching.
6. Explain in detail about the push –based data delivery mechanism and what are the advantages and limitations of push-based scheduling?
7. a) Write the main difference between multi-hop adhoc networks and other networks.  
What advantages do these adhoc networks offer?  
b) Explain the security problems in MANETs
8. With a neat diagram explain the architecture of J2ME stack?

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