

Code No: B5809

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M. TECH II SEMESTER EXAMINATIONS, APRIL/MAY-2012**

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

Time: 3hours

Max.Marks:60

**Answer any five questions
All questions carry equal marks**

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- 1.a) Describe about localization and calling in GSM.
b) Describe in detail about GSM and its services.
- 2.a) Explain about Packet Reservation Multiple Access (PRMA).
b) What is spread Aloha Multiple Access? Explain briefly working of SAMA.
- 3.a) What are the requirements for a Mobile IP? Explain.
b) Describe data transfer from a Mobile node to a fixed node and vice versa.
- 4.a) Explain snooping TCP. What are its advantages and disadvantages?
b) Explain the concept of Fast Retransmit / Fast Recovery in Traditional TCP.
- 5.a) Explain the concept of caching invalidation mechanisms.
b) Describe about power – aware computing.
- 6.a) Explain push based data delivery mechanisms in detail.
b) Write brief notes on selective tuning and indexing techniques in mobile computing and also list out different selective tuning and indexing methods.
- 7.a) Describe the route complications in Mobile Adhoc Networks.
b) Explain the security system in MANETs.
- 8.a) Describe the Architecture of WAP.
b) Explain the MAC layer of Bluetooth.
