

Code No.: 09A70508

Jawaharlal Nehru Technological University Hyderabad

R09

B.Tech IV Year I Semester Examinations

May/June - 2013

MOBILE COMPUTING

(Common to CSE, ECM)

Time: 3 Hours

Max. Marks: 75

*Answer any FIVE Questions
All Questions carry equal marks*

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1. (a) Describe the TDMA frame structure used by GSM.
(b) Describe the different types of handovers that are used in GSM.
(c) What are the limitations of mobile and handheld devices. [15]

2. (a) Explain how MACA can avoid hidden terminals and exposed terminals problem.
(b) Differentiate between time division multiplexing and frequency division multiplexing. [7+8]

3. (a) Explain the requirements of mobile IP.
(b) Explain about the generic routing encapsulation. [7+8]

4. (a) Explain about the slow start of congestion control. How do fast recoveries take place in the congestion avoidance?
(b) Describe about the indirect TCP. [7+8]

5. (a) Explain about the transactional models.
(b) Explain about the caching invalidation mechanism. [7+8]

6. (a) Describe about the pull-based mechanism.
(b) Describe about the selective tuning technique. [7+8]

7. (a) What are the challenges of a MANET.
(b) Explain about the ODMRP routing protocol. [7+8]

8. Describe the protocol stack of bluetooth with neat sketch. [15]