

Code: 06MC405B

MCA IV Semester Supplementary Examinations September/October 2014

**MOBILE COMPUTING**

(For students admitted in 2008 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions  
All questions carry equal marks

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- 1 Discuss in brief about IEEE 802.11 standard.
- 2 What is the need for a specialized MAC layer protocols for wireless networks? Explain in detail about SDMA and CDMA.
- 3 (a) Write about the process of packet delivery in mobile network layer.  
(b) Discuss about the tunneling, reverse tunneling and encapsulation in detail.
- 4 Write short note on the following:
  - (a) Indirect TCP.
  - (b) Mobile TCP.
  - (c) Selective retransmission.
- 5 (a) Write about the various cache invalidation mechanisms.  
(b) Discuss in brief about various transactional models in mobile computing environment.
- 6 What do you mean by pull based, push based and hybrid data dissemination mechanisms? Explain one technique in each category.
- 7 (a) Explain why the conventional routing algorithms are not sufficient for routing in MANETs.  
(b) Write in detail about DSDV and AODV in detail.
- 8 Discuss in brief about the facilities provided in J2ME for implementing WAP and Bluetooth.

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