R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012
MOBILE COMPUTING
(COMMON TO COMPUTER NETWORKS AND INFORMATION SECURITY, COMPUTER NETWORKS)

Time: 3hours   Max. Marks: 60

Answer any five questions
All questions carry equal marks

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1. a) Explain the Three-Tier architecture for Mobile Computing applications with the help of a diagram.
    b) State and brief the promises and impediments of Mobile Computing paradigm.

2. With the help of neat sketch, Explain in detail about GSM Architecture.

3. Explain the following terms w.r.t Mobile IP:
    a. Care-of-Address (COA)
    b. Tunneling
    c. Reverse Tunneling

4. State the reasons for unsuitability of traditional TCP for mobile environment. Explain how I-TCP overcomes those issues through a neat sketch.

5. Compare and contrast - Digital audio broadcasting and Digital video broadcasting.

6. Explain the various Security Frameworks for Mobile Environment.

7. a) Give a neat sketch of taxonomy of the MANET routing algorithms.
    b) Compare the algorithms - AODV and DSDV.

8. Write short notes on:
    a. RFID
    b. J2ME

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