

Code No: 57053

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, December - 2014

MOBILE COMPUTING

(Common to CSE, ECM)

Time: 3 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) Distinguish the terminology:
 - i) Mobile Communication Vs Mobile Computing
 - ii) Distributed Computing Vs Mobile Computing
- b) Mention ANY TWO novel applications (promises) and ANY TWO limitations (Impediments) of Mobile Computing Paradigm.
- 2.a) Draw a diagram for Reference model of GSM Protocol indicating the bearer and tele services.
- b) Draw a diagram indicating the steps involved when a station calls a Mobile Station, i.e., MTC (Mobile Terminated Call).
- 3.a) Explain the problems of Hidden and Exposed Terminals.
- b) Explain how these problems are addressed in IEEE 802.11.
4. Explain the Dynamic Host Configuration Protocol (DHCP) with a neat sketch.
5. With a neat sketch explain the concept in I-TCP, a solution for TCP in Mobile environment. Mention its merits and demerits.
6. Distinguish the two representative protocols for routing in Manets: AODV and DSDV.
- 7.a) Write about any one transactional model supporting Mobile Hosts (MHs).
- b) Write about any one cache invalidation mechanism for MHs.
8. Write on ANY TWO of the following:
 - a) WAP
 - b) Communications Asymmetry
 - c) PalmOS.

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