

R07

Code No: N0523

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, March - 2017

MOBILE COMPUTING

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 80

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

- 1.a) Draw and explain the GPRS architecture reference model.
b) Explain the general packet radio service in detail. [8+8]
- 2.a) How does the near/far effect influence TDMA systems? What happens in CDMA systems? What are countermeasures in TDMA systems, what about CDMA systems?
b) Which of the MAC schemes can give hard guarantee related to bandwidth and access delay? Justify your answer. [8+8]
- 3.a) Name the requirements for a mobile IP and justify them. Does a mobile IP fulfill them all?
b) What are general problems of mobile IP regarding security and support of quality of service? [6+10]
- 4.a) Give a brief note on Traditional TCP and Indirect TCP.
b) List and explain the advantages and disadvantages of snooping TCP. [6+10]
- 5.a) Explain the Hoarding Techniques with an example.
b) Discuss the basic steps in query processing with a neat diagram. [8+8]
- 6.a) List the different types of pull based data dissemination? Explain one of them in detail.
b) Describe the hybrid data dissemination mechanism. [8+8]
- 7.a) Discuss the security issues in MANETs in detail.
b) Explain the Properties of a MANET and spectrum of MANET applications. [8+8]
- 8) Write short notes on the following:
a) Bluetooth
b) MAC layer
c) Wireless Application Protocol
d) Baseband Layer. [16]

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