

R13

Code No: 117FN

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, November/December -2017

MOBILE COMPUTING

(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

- 1.a) Define mobile computing. [2]
- b) Discuss the limitations of handheld devices. [3]
- c) What is meant by tunneling? [2]
- d) Write short notes on TCP/IP. [3]
- e) What are the advantages of I-TCP? [2]
- f) What are the quality issues related to mobile computing? [3]
- g) What is bandwidth? [2]
- h) Explain temporal addressing. [3]
- i) What are the disadvantages of MANETs? [2]
- j) What are the features of windows CE operating system? [3]

PART-B

(50 Marks)

- 2.a) Explain briefly about the architecture reference model of mobile computing.
 - b) Explain different mobile applications. [5+5]
- OR**
- 3.a) Write the difference between circuit switching and packet switching.
 - b) Explain about the time division multiplexing. [5+5]
4. Explain in detail about IEEE 802.11. [10]
- OR**
- 5.a) Distinguish between unicast, multicast and broadcast address.
 - b) Write short notes on DHCP. [5+5]
- 6.a) Explain in detail Snooping TCP.
 - b) Compare different TCP enhancements. [5+5]
- OR**
- 7.a) What are the hoarding technique? Explain in detail.
 - b) Explain the process of data recovery. [5+5]

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- 8.a) Explain the classification of data delivery mechanism. [5+5]
b) Distinguish between push and pull-based mechanism of data dissemination.

OR

- 9.a) Write a short notes on selective tuning and indexing techniques. [5+5]
b) Compare the features of hotsync, activesync and intellisync.

- 10.a) Explain about mobile ad hoc networks(MANETs). [5+5]
b) Distinguish between cellular networks and ad hoc wireless networks.

OR

- 11.a) Explain J2ME. [5+5]
b) Write about DSR.

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