

**R13**

Code No: 117FN

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech IV Year I Semester Examinations, April/May - 2018****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) What is mean by modulation? [2]
- b) Compare DECT and GPRS. [3]
- c) Define polling technique. [2]
- d) Write short notes on location management. [3]
- e) Write short notes mobile TCP. [2]
- f) Discuss the problem associated with the cache. [3]
- g) What is communications asymmetry? [2]
- h) Explain broadcast addressing. [3]
- i) Define symbian operating system. [2]
- j) What are the applications of MANET? [3]

**PART-B****(50 Marks)**

- 2.a) Write a short note on radio interfaces.
  - b) Explain in brief about mobile and handheld devices. [5+5]
- OR**
3. Explain in detail about guided transmission media and unguided transmission media. [10]
- 4.a) Briefly explain Medium Access Control.
  - b) Explain about SDMA. [5+5]
- OR**
5. Explain the methods of tunneling and encapsulation in mobile IP. [10]
6. Describe about indirect TCP and Snooping TCP of Mobile Transport layer. [10]
- OR**
- 7.a) Explain about caching invalidation mechanisms.
  - b) What is query processing? Explain in detail. [5+5]

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8.a) What is synchronizer? Explain with an example.

b) What are different types of broadcast disk models?

[5+5]

OR

9. Explain in detail about the push-based data delivery mechanisms.

[10]

10.a) Explain about mobile agent.

b) Discuss the security issues in MANET.

[5+5]

OR

11.a) Explain linux for mobile devices.

b) What is palm OS? Explain its memory management.

[5+5]

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