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Total Pages: 02

# BT-6/M-19

36115

# MOBILE COMPUTING CSE-306N

Time: Three Hours

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

#### Unit I

- 1. Answer the following questions in brief:
  - (a) What is Mobile Computing? What are its major advantages?
  - (b) What are the design considerations for mobile computing?
  - c) What are the ways by which existing applications can be made mobile enabled?
- 2. Describe the system architecture of GSM and provide an overview of the various GSM channels. How do HLR and VLR support location management? Explain channel assignment and handoffs.

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## Unit II

- 3. What are the different types of wireless LANs? Give an overview of 802.11 wireless LAN. How is it different from Bluetooth?
- 4. (a) What are the components of Mobile IP? How does mobile IP work?
  - (b) Explain, why the MAC protocol is more important in wireless LANs than in wired LANs?

#### Unit III

- 5. What are the data management issues in mobile computing? Explain the issues in brief.
- 6. Define cloud computing and identify its core features, characteristics and benefits. Briefly summarize the types of clouds.

## Unit IV

- 7. What are the characteristics of Mobile Ad hoc networks? Give an overview of MAC issues and QoS in ad hoc networks.
- 3. Give a classification of MANET routing protocols along with a description of any two popular MANET routing protocols.

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