

University of Mumbai

B.E Fourth Year 2013 - 2014 May

Semester 7 (BE Fourth Year)

Mobile Computing

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Mobile Computing, B.E sem-VII (r)  
May-June 2014.

QP Code : MV- 20172

Comp (3 Hours)

[Total Marks : 100

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Note:

1. Question No. 1 is compulsory.
2. Attempt any four questions out of remaining questions.
3. Make suitable assumptions whenever necessary.

Q.1:

- a) What is Spread Spectrum? [5]
- b) Compare between IEEE 801.11 and HiperLAN2 . [5]
- c) What is frequency reuse concept in cellular communication? [5]
- d) Compare 2G and 3G mobile communication systems. [5]

Q.2:

- a) Explain the GSM protocol architecture. [10]
- b) Describe the call initiation and call termination procedure in GSM systems. [10]

Q.3:

- a) Explain IEEE 802.11 MAC frame format in detail. [10]
- b) Describe tunneling and encapsulation in Mobile IP . [10]

Q.4:

- a) With respect to Bluetooth protocol explain piconet and scatternet [10]
- b) Explain merits and demerits of snooping TCP and indirect TCP? [10]

Q.5:

- a) Describe WAP transport layer security [10]
- B) Compare between MEO and GEO satellite systems. [10]

Q.6:

- a) Describe TETRA system architecture. [10]
- b) Compare between WCDMA and CDMA2000 [10]

Q.7: Write Short Notes on following: [20]

- a) Wireless Local Loop
- b) RFID
- c) Wireless ATM
- d) Mobile agents