

Total No. of Questions : 12]

SEAT No. :

P1337

[Total No. of Pages : 2

[4264] - 719

B.E. (IT)

MOBILE COMPUTING

(Semester - I) (2008 Pattern) (Elective - II)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:-

- 1) Attempt any three questions from each section.
- 2) Answers to the two sections should be written in separate answer books.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Assume suitable data, if necessary.

SECTION - I

- Q1) a) Draw and Explain basic PCs Architecture. [8]
b) Explain concept of Hard Handoff and Soft Handoff. [8]

OR

- Q2) a) What is frequency reuse channels? [8]
b) Explain step by step Inter system Handoff. [8]

- Q3) a) Explain GSM call procedure. [8]
b) How mobility database is maintained in GSM. [8]

OR

- Q4) a) Explain GSM burst structure and logical channel classification. [8]
b) Explain Protocol hierarchy of MAP. [8]

- Q5) a) Explain SMS Architecture of GSM. [6]
b) Explain International GSM call setup. [8]
c) What is Mobile number portability. [4]

OR

- Q6) Write short notes on the following :
a) HLR and VLR databases. [6]
b) Mobile number portability mechanism. [6]
c) VLR Overflow. [6]

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SECTION - II

- Q7)** a) Discuss any four functional groups of GPRS. [8]
b) Explain WAP caching model. [8]

OR

- Q8)** a) Explain different interfaces used in GPRS. [8]
b) Discuss Improvements on Core Networks in 3G. [8]

- Q9)** a) What is requirement of Mobile IP layer? [8]
b) Explain Dynamic source routing in MANET. [8]

OR

- Q10)** a) Explain how tunneling is done at Mobile Network layer. [8]
b) Explain destination sequence distance vector routing in MANET. [8]

Q11) Write short notes on the following :

- a) Bluetooth. [6]
b) Wireless local loop. [6]
c) UMTS. [6]

OR

Q12) Write short notes on the following :

- a) WiMAX [6]
b) RFID [6]
c) W - LAN [6]

