UNIVERSITY OF PUNE
[4364]-799
B. E. (INFORMATION TECHNOLOGY) Examination 2013
MOBILE COMPUTING (414444)
(2008 Course)(ELECTIVE –II) (SEM –I)
[Total No. of Questions:12]   [Total No. of Printed pages :2]
[Time : 3 Hours]   [Max. Marks : 100]
Instructions :
      (1) *Answers any 3 questions from each section*
      (2) *Answer Q1orQ2,Q3or Q4and Q5or Q6from Section-I and Q7 or Q8,Q9or Q10,and Q11or Q12 from Section-II*
      (3) *Answers to the two Sections should be written in separate answer-books*
      (4) *Neat diagram must be drawn wherever necessary.*
      (5) *Figures to the right indicate full marks.*
      (6) *Assume suitable data, if necessary.*

SECTION-I

Q.1a) Explain the need for hand off and step by step Inter-BS Handoff.   [8]

  b) Explain the concept of frequency route channel.   [8]

OR

Q.2a) Describe the three hand off detection strategies.   [8]

  b) Explain the roaming management in GSM.   [8]

Q.3a) Explain step by step description of   [8]

    1) GSM call origination.

    2) GSM call termination.

  b) Explain the MAP service primitives in GSM network.   [8]

OR

Q.4a) Explain VLR failure restoration.   [8]

  b) Discuss about the architecture of GSM.   [8]

Q.5a) Explain four layers in the SMS protocol. [10]

b) Explain the procedure of International call setup. [8]

OR

Q.6 Write short notes on: [18]

1) Tariff administration

2) SMS architecture

3) Fixed network number portability.

SECTION-II

Q.7a) Describe the GPRS are architecture. [8]
b) Discuss the Billing procedure in GPRS. [8]
OR
Q.8a) Describe the WAP protocol. [8]
b) Compare W-CDMA and CDMA 2000. [8]
Q.9a) Describe the goals and requirements of mobile IP. [8]
b) Explain dynamic source routing in MANET. [8]
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OR
Q.10a) Explain IPV6 in detail. [8]
b) Explain important processes used in mobile IP. [8]
Q.11 Write short notes on: [18]
1) W-LAN
2)RFID
3)Spread spectrum technologies
OR
Q.12 Write short notes on: [18]
1) Wireless Local Loop
2) Java card
3) Bluetooth