

Total No. of Questions :12]

SEAT No. :

P800

[Total No. of Pages : 2

[4659] - 212

B. E. (I T)

MOBILE COMPUTING

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

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) *Answers 3 questions from Section - I and 3 questions from Section - II.*
- 2) *Answers to the two sections should be written in separate answer books.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Figures to the right indicate full marks.*
- 5) *Assume suitable data, if necessary.*

SECTION - I

- Q1)** a) Explain various generations of Mobile Communication system. [8]
b) What are the three measurements used to decide handoff? What are distance dependent fading, shadow fading and Rayleigh fading? [8]

OR

- Q2)** a) Draw the general PCS architecture and explain it. [8]
b) What is soft hand off? Explain the procedure for adding and removing Base stations with MAHO soft hand off. [8]

OR

- Q4)** a) Compare the authentication procedure in IS-41 and GSM. [8]
b) How is location update done in GSM. [8]

- Q5)** a) Explain Mobile originated messaging and Mobile terminated messaging. [8]
b) Draw and explain SMS protocol stack. [8]

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OR

- Q6)** a) What is number portability? Describe three types of number portability. [9]
b) Explain in detail Pre Paid & Post Paid service in mobile. [7]

SECTION - II

- Q7)** a) Explain Wireless Application Protocol (WAP) model in detail. [8]
b) Write short note on Billing and Charging mechanism in GPRS. [8]

OR

- Q8)** a) Explain GPRS architecture with neat diagram. [8]
b) Compare W-CDMA and CDMA 2000. [8]

- Q9)** a) Explain in detail IP Packet delivery. [8]
b) Describe the goals and requirements of Mobile IP. [8]

OR

- Q10)**a) Explain Various features and header format of IPv6. [8]
b) Explain Dynamic source routing in MANET. [8]

- Q11)**a) Explain in detail Wireless Broad Band (WiMAX) technology. [8]
b) Define Bluetooth.
Explain in detail Bluetooth technology with protocol stack. [10]

OR

- Q12)**a) What are the advantages of Spread Spectrum technology? Explain with diagram Spread Spectrum Technology. [10]
b) Write a short note on: (4 Marks Each) [8]
i) RFID
ii) W-LAN

