



Total No. of Questions : 12]

SEAT No. :

P2999

[Total No. of Pages : 2

B.E. (Mobile Computing) (Semester - II)
INFORMATION TECHNOLOGY
(2008 Pattern)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) *Answers to the two sections should be written in separate answer books.*
- 2) *Answer three questions from each section.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Figures to the right side indicate full marks.*
- 5) *Use of Calculator is allowed.*
- 6) *Assume Suitable data if necessary.*

SECTION - I

Q1) a) Explain various generations of Mobile Communication system. [8]

b) What is Signaling System 7? Explain in brief. [8]

OR

Q2) a) Draw and explain basic cellular system. [8]

b) What is hand off mechanism? Explain in detail soft, softer and hard handoff. [8]

Q3) a) Explain with diagram A3, A5 and A8 algorithm in GSM. [8]

b) Explain in detail with neat diagram GSM architecture. [8]

OR

Q4) a) Explain in detail GSM MAP Dialogue. [8]

b) What is VLR? Explain in detail VLR overflow control. [8]

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- Q5) a)** Explain Mobile originated messaging and Mobile terminated messaging. [9]
b) Draw and explain SMS architecture. [9]

OR

- Q6) a)** What is number portability? Describe three types of number portability. [9]
b) Compare GSM with GPRS. Explain advantages, applications of GSM & GPRS. [9]

SECTION - II

- Q7) a)** Explain in detail WAP protocol stack. [8]
b) Explain in detail with neat diagram GPRS architecture. [8]

OR

- Q8) a)** What is SGSN and GGSN in GPRS? Explain in detail. [8]
b) Explain in detail Walsh code. [8]

- Q9) a)** Write short note on IPv6. [8]
b) Describe the goals and requirements of Mobile IP. [8]

OR

- Q10)a)** Explain in detail DHCP. [8]
b) What is MANET? Explain Dynamic source routing in MANET. [8]

- Q11)a)** Explain in detail Wireless Broad Band (Wi MAX) technology. [8]
b) Explain in detail with neat diagram Bluetooth protocol stack. [10]

OR

- Q12)a)** What is passive and active RFIID? What are different frequencies used in RFIID? Explain in brief. [8]
b) Write a short note on: (any two) [10]
i) W-LAN
ii) Bluetooth Technology
iii) Java Card

