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 RFiD? What are different frequencies used in RFiD? Explain in brief. **[8]**

b) Write a short note on: (any two) **[10]**

i) W-LAN

ii) Bluetooth Technology

iii) Java Card

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