SEAT No. :

P1477

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[4164] - 729 May -June 2012

B.E. (IT)

MOBILE COMPUTING

(2008 Pattern) (Elective - II) (Sem. - I)

Time :3 Hours] [*Max. Marks :100*

Instructions to the candidates:-

1) *Answers to the two sections should be written in separate books.*

2) *Assume suitable data, if necessary.*

SECTION - I

Q1) a) What is handoff mechanism? Explain the concept of soft handoff and hard handoff. [8]

b) Explain the architecture of basic cellular system. [8]

OR

Q2) a) Explain how a small frequency spectrum is used in cellular system. [8]

b) What is cell splitting? Explain why is it necessary to split the cell. [8]

Q3) Explain GSM architecture, entities in detail along with its security issues. [18]

OR

Q4) Write short notes on : [18]

a) USSD

b) GSM TDMA frame

c) VLR overflow problem

Q5) a) Explain the SMS architecture along with its features. [8]

b) What is number portability? Explain its various types. [8]

OR

Q6) a) Explain the service node approach and hot billing approach used in mobile prepaid service. [8]

b) Explain in detail 'International roaming in GSM'. [8]

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SECTION - II

Q7) a) Explain features, advantages and limitations of GPRS. [8]

b) Explain WAP model in detail. [8]

OR

Q8) a) Explain GPRS architecture in detail. [8]

b) Differentiate 2G and 3G mobile services and hardware features. [8]

Q9) a) What is the importance of home agent and foreign agent in mobile IP?
[8]

b) Explain various features and header format of IPv6. [8]

OR

Q10) a) Write a detailed note on MANET. [8]

b) Explain DSDV and DSR in brief. [8]

Q11) Write short notes on : [18]

a) Bluetooth technical features.

b) WLL

c) RFiD

OR

Q12) Write short notes on : [18]

a) WLAN

b) FHSS and DSSS

c) UMTS

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