

Total No. of Questions : 6]

SEAT No. :

P438

[Total No. of Pages : 2

BE/Insem/APR - 106
B.E. (Computer Engineering)
MOBILE COMPUTING
(2012 Pattern) (Elective - III)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Assume suitable data if necessary.*

Q1) a) What is the need of spread spectrum technology? Explain DSSS with one example. **[6]**

b) Explain functioning of Cellular network. How the given set of frequencies are used to increase capacity of a network. **[4]**

OR

Q2) a) Explain various switching techniques used in wireless networks. **[6]**

b) What are the limitations of wireless communication system. **[4]**

Q3) a) What are the limitations of Mobile Devices? **[6]**

b) Explain using block diagram the process of authentication in a GSM Service. **[4]**

OR

Q4) a) What do you mean by mobility management? Explain Handoff procedure in cellular networks. **[6]**

b) Explain Mobile Computing architecture for a mobile device in detail. **[4]**

P.T.O.

- Q5)** a) Explain GSM Network Architecture. [6]
b) What is Handover? Explain various types of it. Explain Handover in GSM. [4]

OR

- Q6)** a) How is confidentiality maintained during a call using ciphering and encryption processes? [6]
b) Explain various traffic and control data channels used in GSM network. [4]

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