

M.E. Second Semester (Computer Science & Infor.Tech.) (New - CGS)
13194 : Elective - II : Mobile Computing : 2 RNME 5

P. Pages : 2

Time : Three Hours



AU - 3442

Max. Marks : 80

- Notes :
1. Due credit will be given to neatness and adequate dimensions.
 2. Assume suitable data wherever necessary.
 3. Illustrate your answer necessary with the help of neat sketches.

1. a) Explain slow fading and fast fading in wireless channel. 7
b) What is protocol? Explain network protocols in detail. 7

OR

2. a) Discuss the challenges of wireless networking. 7
b) Explain the characteristics of cellular system. 7
3. a) Give the comparison between fixed channel allocation & Dynamic channel allocation. 7
b) Explain cluster formation. 6

OR

4. a) Discuss reuse of frequency & hexagonal cell pattern. 6
b) Explain co-channel interference mathematically. What are the techniques to reduce cochannel interference.
5. a) Describe relationship between IS-41 & DSI protocol stack using suitable diagram. 7
b) Explain parameters influencing hand off. 6

OR

6. a) Explain with block diagram GSM infrastructure with frequency bands & channels. 7
b) How do you differentiate between privacy & security? 6
7. a) What is routing in MANET? Describe its goals. 7
b) Explain source initiated on demand routing in detail. 7

OR

8. a) Explain advantages & disadvantages of wireless sensor networks over wired sensor networks. 7
b) Explain any two route optimization strategies. 7

9. a) What is meant by topology? Explain wireless personal area networks in detail. 7
b) Explain ultra-wide band technology with its two methods to generate wide spectra. 6

OR

10. a) Differentiate between wireless metropolitan Area network & wireless local area network. 6
b) Explain the design of MAC Management in IEEE – 802.11 protocol. 7
11. a) Discuss the characteristics and limitations of bluetooth. 7
b) What are the security threats to wireless network. 6

OR

12. Describe types of Antenna. Explain smart antenna & space division multiplexing access. 13

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