M.E. Second Semester (Information Technology) (Full Time) (CGS)
13432 : Elective-II : Wireless Network and Communication : 2 NMEF 5

P. Pages : 2

AU - 3313

Time : Three Hours

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.
4. Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION – A

1. a) Draw GSM architecture and explain each subsystem in brief. 7

   b) Discuss the IS-95 system along with key features of the system. 7

OR

2. a) Discuss the various wireless standards and explain it's need in detail. 7

   b) What is multiple access and explain any two multiple access system. 7

3. a) Explain the concept of cluster. 7

   b) Draw and explain SS7 protocol architecture in detail. 6

OR

4. a) Explain the GSM system architecture with help of diag. 7

   b) Discuss the functional concept of DECT. 6

5. a) Explain cellular digital packet data network in detail. 7

   b) Discuss reference model of GPRS protocol. 6

OR

6. a) Explain the concept of mobility management in CDPD. 7

   b) Explain the EDGE data network in detail. 6

SECTION - B

7. a) Explain modulation method which is used in cellular system for high data rate. 7

   b) Explain the FHSS in detail. 7

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8.	a)	Discuss the ultra wideband radio technology and it's importance.	7
	b)	What is OFDM? and also explain it's importance in multiplexing techniques.	7
9.	a)	Explain wimax IEEE 802.16 broadband wireless access standard.	7
	b)	Explain wi-fi MAC layer in detail.	6

OR

10.	a)	Explain the requirement of IEEE 802.11 standard.	7
	b)	Draw and explain PLCP frame format for the FHSS.	6
11.	a)	Explain the bluetooth protocol architecture with bluetooth usage model in detail.	6
	b)	Explain the role of master and slave element of wireless PAN.	7

OR

12.	a)	Discuss the upcoming emerging wireless technology in detail.	6
	b)	Explain the physical layer of IEEE 802.16 standard.	7

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