M.E. First Semester (Computer Science & Information Technology) (New-CGS)

13182 : Wireless Communication & Network Computing : 1 RNME 4

P. Pages : 2

Time : Three Hours

0367

AU - 3433

Max. Marks : 80

Notes :
1. Due credit will be given to neatness and adequate dimensions.
2. Assume suitable data wherever necessary.
3. Diagrams and chemical equations should be given wherever necessary.
4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) What is convolution? Explain in detail. 7

   b) Explain 14, 24, 34 and 44 wireless communication system. 7

OR

2. a) What is quantization? Explain uniform and non uniform quantization. 7

   b) What may be the symbol rate of QPSK, 8PSK, and 16 PSK scheme if the bit rate is 256 mbps? 7

3. a) What is fading? Explain different types of fading. 7

   b) Explain ground wave & sky wave propagation. 6

OR

4. a) Explain different diversity combing technique. 7

   b) Explain in detail. 6

   i) Diffraction in loss.

   ii) AWGN

   iii) Total path loss.

5. a) Write a short note on digital audio Broadcasting. 6

   b) Explain advantages and application of MIMO. 7

OR

6. Describe different Wi-Fi standard in detail. 13

7. a) Explain the techniques of FDMA and TDMA and compare these techniques. 7

   b) Explain frequency hopping spread spectrum. 7

OR

8.	a)	Explain GSM architecture in detail.	7
	b)	What do you mean by CDMA? Explain reverse CDMA channel.	7
9.	a)	What do you mean by protocols? Explain OSI layer in detail.	6
	b)	Why imode so successful? Explain in detail.	7

OR

10.	a)	Explain 802.11b security mechanism.	7
	b)	Explain RFID structure in detail.	6
11.	a)	State the role of 4th Generation. Will it be accepted?	7
	b)	Explain:-	6

     i)   Two- way wireless communication.

     ii)   Radio waves.

     iii)   Digital certificate.

OR

12.	a)	What is public key? Explain its security method.	6
	b)	Different between Bluetooth, WiFi, Wi-Max network in detail.	7

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