M.C.A. Second Semester (First Year) (CGS)
15513 : Data Communication : 2 MCA 4 / 2 CS 4

P. Pages : 1

Time : Three Hours

0118

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Max. Marks : 80

Notes : 1. Illustrate your answer necessary with the help of neat sketches.
2. Use of pen Blue/Black ink/refill only for writing the answer book.

1.	a)	Explain Data communication concepts in detail.	8
	b)	Explain cellular Technology. State its features.	6

OR

2.	a)	What is interactive voice response system? Differentiate between IVR and voice mail.	8
	b)	What are the different application areas of data communication?	6

3.	a)	What do you mean by Host-based Architecture and client-based architecture.	7
	b)	What is line adaptor? Explain its working.	6

OR

4.	a)	Compare and contrast two-tier, three-tier and n-tier client-server architecture.	6
	b)	Explain FDM? What are different application of FDM.	7

5.	a)	What is PCM? Explain.	7
	b)	Briefly describe three important coding scheme.	6

OR

6.	a)	Explain various standard used in connector cables for communication circuit?	7
	b)	What is modem? Explain different types of modem?	6

7.	a)	Explain the term transmission efficiency? What is throughput?	6
	b)	What are the different sources of errors?	7

OR

8.	a)	Explain forward error correction method with hamming code?	7
	b)	Explain SDLD in detail.	6

9.	a)	Explain X.25 standard for network?	7
	b)	Explain static and dynamic routing?	6+1=7

OR

10.	a)	Describe the TCP packet format.	7
	b)	How does multicasting work?	6+1=7

11.	a)	Explain dedicated-server and peer-to-peer LAN.	7
	b)	Explain Arc Net-Versus Ethernet.	6

OR

12.	a)	List the components of LAN? Explain them with suitable diagram.	7
	b)	Explain:	6

    i) Network hub   ii) Switches
    iii) Access Points

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