M.C.A. Second Semester (First Year) (CGS)

15513: Data Communication 2 MCA 4

P. Pages: 2

AV - 3673

Time: Three Hours			Max. Marks:	Max. Marks: 80	
	Note	s: 1. 2.	Illustrate your answer necessary with the help of neat sketches. Use of pen Blue/Black ink/refill only for writing the answer book.		
1.	a)	What are	e different application areas of data communication? Give suitable real – time s.	8	
	b)	How doe	es switching perform in telephone network?	6	
			OR		
2.	a)	Explain	the term "Cellular Technology"? What are its features?	8	
	b)	Explain 1	Interactive voice response system?	6	
3.	a)	What are	e the advantages and disadvantages of host – based networks versus client server s.	7	
	b)	Write de	tail note on protocol converter.	6	
			OR		
4.	a)	What are	e special purpose terminals? Explain with example.	7	
	b)	Describe	Front – end processor? What are the uses of FEP.	6	
5.	a)	Explain	the term	6	
		1) Bit	Rate		
		2) Bau	nd Rate		
		3) Syn	nbol Rate		
	b)	What is I	Modem? How do modems transmit the data?	7	
			OR		
6.	a)	Describe	how data could be transmitted using amplitude modulation?	7	
	b)	Describe	three types of guided media?	6	
7.	a)	Evaluate	and discuss the relative performance of contention and controlled access MAC.	7	
	b)	Briefly d	lescribe how check sum works?	6	

OR

8.		Describe synchronous and asynchronous data link layer protocols.	13
9.	a)	What is routing? Describe centralized and decentralized routing?	7
	b)	Explain how TCP is different from UDP?	6
		OR	
10.	a)	Describe TCP Packet format?	. 7
	b)	Explain IPX and SPX protocol.	6
11.	a)	What are the different components of LAN?	7
	b)	What are the different types of ethernet?	7
		OR	
12.	a)	Briefly describe how CSMA/CD works?	7
	b)	Explain MAP (IEEE 802.4)	7
