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Code No: MC1332/R13

MCA III Semester Regular/ Supplementary Examinations, November-2016 COMPUTER COMMUNICATIONS

Ti	me:	3 Hours Max. Marks	Max. Marks: 60	
		Answer Any FIVE Questions All Questions Carry Equal Marks		
1.	a	Explain the concept of unreliable communication. How it is different from connection oriented service-reliable communication?	6M	
	b	How OSI is different from TCP/IP in terms of services, Interfaces and protocols? Explain.	6M	
2.	a	Explain the process of incorporating flow control and error control through elementary data link layer protocols.	6M	
	b	What is the role of cyclic code in data link layer? How to catch the error with these generator polynomials? Explain with CRC-16.	6M	
3.	a	 Explain the following with respect to standard Ethernet i) Characteristics ii) Addressing iii) Implementation. 	6M	
	b	Explain five important operations that a router does in Link State routing.	6M	
4.	a	What is congestion? Explain various of approaches used for congestion control.	6M	
	b	Explain the classless, class full and special addressing mechanisms used in Internet Protocol.	6M	
5.	a	With neat sketch explain the headers and extension header formats of IPV6	6M	
	b	In detail discuss the Cell formats and service categories of ATM networks.	6M	
6.		 Explain the following elements of transport protocols. a. Addressing b. Connection Establishment c. Connection release d. Flow and Error Control. 	12N	
		a. Flow and Error Control. 1 of 2		



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7.	a	How Internet protocol supports connectionless transport protocol? Explain its header and pseudo header formats.	6M
	b	What is cryptography? Explain various steps used in DES algorithms.	6M
8.	a	Describe the architecture of firewalls. Explain the working principles and improvements that can be made to it.	6M
	b	Explain the following with respect to WWW	6M
		i. Operations on Server side and client side	
		ii. Static and Dynamic Web Pages.	

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