AU-285

M.Sc. (Part-I) Semester-I (C.B.C.S. Scheme) Examination COMPUTER SOFTWARE (New)

(Computer Networks)

Paper-1 MCSW 4

Time : Three Hours] [Maximum Marks : 80							
Note:— Attempt all questions.							
1.	(a)	What are the different modes of data transmission? Explain serial mode of data trans	smission. 7				
	(b)	Explain the functions of different layers of OSI Network Reference model.	8				
	OR						
2.	(a)	What is Packet Switched Network? Explain working of circuit switched and switched.	message 8				
	(b)	Explain the various unguided communication media in detail.	7				
3.	(a)	Draw the layered Architecture of client-server model explain in detail.	7				
	(b)	Explain various types of HTTP connections.	6				
OR							
4.	(a)	What is DNS? Explain services and working of DNS.	7				
	(b)	What is FTP? Explain the FTP commands with example.	6				
5.	(a)	Explain the services provided by UDP in detail.	7				
	(b)	Explain the principles of TCP congestion control with example.	6				
	OR						
6.	(a)	Explain stop-and-wait and pipelined data transfer protocol.	7				
	(b)	What is Flow control? Explain in detail with example.	6				
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7.	(a)	What is Routing? Explain Routing algorithm in detail.	7
	(b)	State and explain IPV6 and Internet protocol in detail.	6
		OR	
8.	(a)	Explain the working of RIP in detail.	7
	(b)	Write short notes on:	
		(1) BGP	
		(2) OSPF.	6
9.	(a)	Explain the IEEE 802.11 standard for wireless LAN.	7
	(b)	Write short notes on:	
		(1) HUB	
		(2) SWITCHES.	6
		OR	
10.	(a)	Explain parity checking and longitudinal redundancy checking techniques.	7
	(b)	Describe media access control in detail.	6
11.	(a)	What is Network Management? Describe various areas of network management.	7
	(b)	Write short notes on:	
		(1) SMI	
		(2) SMMP.	6
		OR	
12.	(a)	What is Digital Signature? Write procedure for creating a digital signature.	7
	(b)	What is symmetric key cryptography? Explain with neat diagram.	6