M.C.A. Third Semester (CGS) 15522: Computer Networks: 3 MCA 4

P. Pages: 2 Time: Three Hours



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Max. Marks: 80

			- 0 7 6 6 7		
	Note	Illustrate yo	table data wherever necessary. our answer necessary with the help of neat sketches. Blue/Black ink/refill only for writing the answer boo	k.	-
1.	a)	Describe the various	types of delays in packet switched network.		8
	b)	Describe the workin	g of FTP with the help of suitable diagram.		6
			OR		
2.	a)	Explain various FTF	commands and their probable replier.	•	8
	b)	What is packet loss?	Explain the solution to this problem.		6
3.	a)	Explain reliable data	transfer over a channel with bit-errors.		7
	b)	Describe the service	s provided by TCP.		7
			OR		
4.	a)	What is multiplexing multiplexing and de	g and demultiplexing? Explain connectionless and co multiplexing.	nnection-oriented	14
5.	a)	Explain the classific	ation of Routing algorithms.		7
	b)	Explain Inter-Auton	omous system routing.		6
			OR		
6.	a)	Explain OSPF (Ope	n Shortest Path First) protocol in detail.		7
	b)	Explain the datagran	n services modes for networking.		6
7.	a)	What is multiple Ac	cess problem? State its probable solution.		7
	b)	What is PPP? State	he desired requirements for PPP.		6
			OR		
8.	a)	What is polling? Ex	plain the Roll-call polling method.		7
	b)	Explain the Ethernet	frame structure.		6

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9.	a)	Describe the desirable properties of a secure communication.	7
	b)	What is digital signature? Describe the procedure to create a digital signature.	6
		OR	
10.	a)	What is a key? Explain the Symmetric key cryptography technique.	7
	b)	What is KDC (Key Distribution Center)? Give a brief note on it.	6
11.	a)	What is network management? Explain how a network administration benefit from the appropriate network management took.	
	b)	What is SNMP? Explain the various PDU types of SNMP.	6
		OR	
12.	a)	Explain management information base.	
	b)	Explain:	
		i) Configuration management.	
		ii) Security management.	

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