Tota	ıl No	o. of Questions : 12] SEAT No. :		
P806		[4659] - 219 B.E.(IT)	Pages: 2	
	A	ADVANCED COMPUTER NETWORKS (Semester - II))	
	-	(2008 Pattern) (Elective - III(d))	,	
Time: 3 Hours]		Hours] [Max. Ma	[Max. Marks : 100	
Insti	ructi 1) 2) 3) 4) 5)	ions to the candidates: Answers to the two sections should be written in separate answer books. Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. Use of Calculator is allowed. Assume Suitable data if necessary.		
		<u>SECTION - I</u>		
Q1)	a)	State and explain logical layers of ISO/OSI model.	[8]	
	b)	Discuss evolution process of today's network from telephone netw	vork.[8]	
		OR		
Q2)	a)	What are principles of communication network? Explain.	[8]	
	b)	Explain network architecture and functionality of each block in de	etail. [8]	
Q3)	a)	State and explain various delays in ATM network.	[8]	
	b)	Why Network Address Translator is required in the network.	[8]	
		OR		
Q4)	a)	Explain the architecture of MPLS.	[6]	
	b)	Define Availability of network, MTBF, and MTTR. How "Avail of network is calculated?	ability" [10]	
Q 5)	W 1	rite short notes on: (any 3)	[18]	
	a)	ATM reference model		
	b)	CIDR		
	c)	Protocols of MPLS		
	d)	Network Elements		

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Q6) a)	Explain the need of IPv6 in todays world.	[8]
b)	Explain the significance of ATM Adaptation layer in detail.	[10]
	SECTION - II	
Q7) a)	How KEEPALIVE message is important in BGP? Explain.	[8]
b)	What is two-crossing problem in mobile IP routing?	[8]
	OR	
Q8) a)	What is label swapping in IP switching?	[8]
b)	Explain architecture of wireless network along with its application.	[8]
Q9) a)	Describe blocking probability in circuit switched network.	[8]
b)	Explain addressing formats in Mobile IP.	[8]
	OR	
<i>Q10)</i> a)	Explain in brief a protocol suit H.323 for IP telephony.	[10]
b)	Describe blocking probability in circuit switch network.	[6]
<i>Q11)</i> a)	Explain how autoconfiguration and renumbering in IPv6.	[8]
b)	Explain DSR protocol for adhoc networks.	[10]
	OR	
Q12)Write short notes on: (any 3)		[18]
a)	VPN	
b)	MPLS	
c)	Addressing scheme in ATM networks	
d)	Traffic Engineering	