END TERM EXAMINATION

FOURTH SEMESTER [MCA] MAY-JUNE 2012

Paper Code: MCA206 Sul		Subject: Advance Computer Networks
Time : 3 Hours Maximum Marks : 6		
Note: Attempt five questions including Q.no.1 Which is Compulsory. Select one		
	question froi	n each unit
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Q1	(a) What is Hidden and Exposed problem?	
	(b) Explain the advantages and disadvantages of	
	(c) Explain the following term in respect to ATM	
	Virtual Path, Virtual Connection, UNI, SVC,	
		TCP is able to transmit over a particular path is B
	bytes per second then give the constraint that (e) Differentiate between Wi Fi and Wimax.	must be satisfied for error-free operation.
	(f) How can reliable communication be impleme	nted using unreliable Datagrams?
	(g) What is Route Optimization in MIPv6?	med using unrenable Datagrams:
		re demonstrated remarkable robustness in adapting
	to a wide range of network characteristics." J	
	(i)Explain briefly one-way Hash function.	·
	(j) Perform Encryption and Decryption using RS	A alg. For the following P=7, q=11, e=17 and
	m=8.	(2x10=20)
	<u>UNI'</u>	
Q2	(a) Give the architecture of HIPPI Protocol. Wha	· · · · · · · · · · · · · · · · · · ·
	(b) Identify and describe the problem areas for w	-
Q3	(a) Explain IEEE 802.6 Protocol. Comment on it	
Q3	(b) List the various types of Timers and Time Re	
	(c) Zist the turious types of Timers and Time Ite	Broton and m 1 75 2 1
	UNIT	<u>'-II</u>
Q4	(a) Differentiate between Statefull and Stateless	address assignment Protocols of IPv6. (6)
	(b) Gives the Configuration Modes in OSPFv3.	(4)
~ ~	OF	
Q5	(a) Draw and explain the architecture and working	
	(b) Give the DNS configuration commands for II	Pv6. (3)
	UNIT	TTT
Q6	Explain Uni-cast and Multicast Addressing used	
Q.o	Multicast Address in detail.	(10)
	OF	
Q7	What are the new Security Threats that have been	n introduced in Mobile IPv6? Give there solutions.
		(10)
	<u>UNIT-IV</u>	
		ES key generation method determine K1, K2 where
	P10=3 5 2 7 4 10 1 9 8 6, P8=6 3 7 4 8 5 10 9	
	(b) "S / MIME is not restricted to email" Justify,	
Q9		
Q9		um method to authenticate build confidentiality of o message M=8376, K1=4892, K2=53624071. (6)