END TERM EXAMINATION

FOURTH SEMESTER [MCA] MAY-JUNE-2013

PAPER CODE : MCA206	SUBJECT : Advance Computer Networks
Time: 3 hours	Maximum Marks : 60
Note : Attempt five Questions including	Q.no. 1 which is compulsory .
Select 1 Question from each	n unit
1 • Answer all the following\g questions bri	efly:- $(2 * 10 = 20)$
f) Describe the term Home Agent and I	on. Ogramming Interface (API) for IPV6.6 bone. Foreign Agent in Mobile IP. ed in communication between Remote host and entication and Entity Authentication?
UNIT-I	
2. (a) What do you mean by Hidden Station	n and Exposed Station problem?
How can we solve this?	(5)
(b) What are the various MAC technique	es in Wi-Fi? Compare IEEE 802.11a, 802.11b
And 802.11g standards of Wi-Fi.	(5)
3. (a) Explain the frame format of FDDI . H	low FDDI media access control works? (5)
(b) Explain the architecture of HIPPI . W	hat are the different layers of HIPPI protocol? (5)

UNIT - II

4. (a) Explain the architecture of ATM . How VCI and VPI work in TP?	
(b) Explain the term Neighbour Discovery . What are the Different types of	
Neighbour Discovery process ?	(5)
5. (a) Differentiate between Statefull and Stateless Address Assignment Protocols	of IPV6. (5)
(b) What are the different types of Error Messages and Informational Messages	
in ICMPV6 ??	(5)
UNIT-III	
6. (a) Implement Dynamic Routing with the help of OSPF routing protocol to conf	igure
five different connected networks with routers.	(5)
(b) Describe the term Multicast Routing Protocols . Differentiate between DVMF	RP and
CBT routing protocols .	(5)
7. (a) Explain Multicasting . Compare Sourse-Based Tree and Group-Based Tree in	1
Tabular form .	(5)
(b) Explain the term $R \setminus Triangle$ Routing and Double Crossing in Mobile IP , Wh	at are
The solutions to improve Mobile IP Efficiency?	(5)
UNIT-IV	
8. (a) Explain AH and ESP in IPSec Protocol.	(5)
(b) Difference between Symmetric cryptography and asymmetric cryptography .	
Discuss Caesar cipher and DES.	(5)
9. (a) When we talk about authentication in SSL, do we mean message authentication	on
or entity authentication ?? Justify your answer.	(5)
(b) What do you mean by TCP – transaction oriented application? What are the d	ifferent
types of four extensions to improve TCP performance?	(5)