END TERM EXAMINATION

FOURTH SEMESTER [MCA] MAY 2017

Paper Code: MCA-206	Subject: Advanced Computer Networks
Time: 3 Hours	Maximum Marks: 75

Note: Attempt all questions as directed. Internal choice is indicated.

Q1   Answer the following questions: (5x5=25)
(a) What are three layer of X.25?
(b) Compare ATM and Frame Relay.
(c) Compare message, packet and circuit switching.
(d) How ARP and RARP are different from each other? Explain.
(e) What are the sizes of MAC address space, IPv4 and IPv6 address spaces? Give examples.

Unit-I

Q2   (a) Discuss the reasons why layered structured is used in OSIRM.   (4)
(b) What are fast access technologies? Explain various types of fast access technologies.   (8.5)

OR

Q3   Write notes on the following: (6.25x2=12.5)
(a) FDDI
(b) ADSL

Unit-II

Q4   (a) What are the different categories of addresses in IPv6? Discuss the extension headers in IPv6.   (6.25)
(b) Draw the header format for IPv6.   (6.25)

OR

Q5   (a) Discuss the various fields of routing table in details.   (6.25)
(b) Discuss ATM reference model.   (6.25)

Unit-III

Q6   (a) Define IP Multicast Address with the help of example.   (6.25)
(b) Explain Distance Vector Multicast routing Protocol with the help of example.   (6.25)

OR

Q7   (a) Explain the mobility operation.   (6.25)
(b) Show the Position of IGMP in TCP/IP Model. Explain IGMP Version 2. (6.25)

Unit-IV

Q8   Write short notes on any two of the following: (6.25x2=12.5)
(a) Digital Certificates
(b) Address Aggregation
(c) Secure HTTP

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