## END TERM EXAMINATION

FOURTH SEMESTER [MCA] MAY-JUNE 2016

Subject: Advanced Computer Networks Paper Code: MCA-206 Maximum Marks: 60 Time: 3 Hours Note: Attempt any five questions including Q.no.1 which is compulsory. Select one question from each unit. (10x2=20)Answer all the following questions briefly: (a) What is Carrier extension approach and frame bursting in Gigebit Q1 Ethernet? (b) What is HFC network? (c) What are the values of subtype fields in control frames? (d) What is encrypted security payload in IPV6? (e) How is an ATM virtual connection identified? (f) Why RIP uses UDP instead of TCP? (g) Change the multicast IP address 232.43.14.7 to an Ethernet multicast physical address. (h) What is the role of SACK in TCP? (i) What is ISAKMP? (j) Draw a block diagram showing the digital signature process. Unit-I Discuss Six goals of the IEEE 802.32 design. Explain its two common Q2implementations with its corresponding encoding & decoding (10)mechanism. Discuss in detail four IEEE 802.11 addressing mechanism. (10)Q3 Unit-II Explain six extension headers types of IPv6 datagram. 04 (10)Q5 

✓ Describe the architecture of ATM and its various layers. (10)Unit-III What is multicast distances vector routing? Describe four decision-Q6 making strategies involved in DVMRP. (10)Q7/ Describe the three phases involved in the communication between mobile host and remote host. (10)Unit-IV Discuss the concept of send window and receive window for data transfer Q8 in TCP. What is Silly Window Syndrome and its proposed solution. (10)(a) Compare and contrast http and https. Q9 (5)(b) How message authentication code (MAC) is generated?

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