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END TERM EXAMINATION

Paper Code: MCA 207	SEMESTER [MCA] DECEMBER 2015	
Time: 3 Hours	Subject: Data Communication & N	et

Note: Attempt any five questions including Q.No. 1 which is compulsory. Maximum Marks :60 Select one question from each unit.

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市中中中南东山	Differentiate between a low pass filter and a band pass filter. Explain different modes of transmission in an optical fiber. Define QAM and draw the constellation diagram for 32QAM. Why do we need flow control? Differentiate between ALOHA and Slotted ALOHA. What is the channel allocation problem? What is classful addressing? What is the utility of NAT? Describe a 3- way handshake))
41	What is classful addressing? What is the utility of NATO	

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~	Explain multiplexing and its types with focus on its application in the Mobile telephone system.
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Differentiate between OSI and TCP/IP reference models in terms of

Q3. a) Describe different types of communication satellites. (6)

b) Encode the following bits into a digital signal using bipolar AMI and HDB3 encoding schemes: 1100100001101. POTSPA

Unit-II

a) What is a two dimensional parity check? Calculate the redundancy bits for the following data using the Hamming code: 1100101011. (7)

b) Differentiate between Selective repeat and Go back N sliding window (3)

Q5. a) How are collisions avoided in a wireless network? (6)

b) Describe a collision free protocol. (2)

c) Draw the structure of an Ethernet frame. (2)

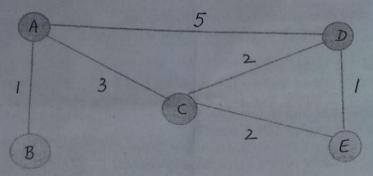
Unit-III

Q6. a) Explain the IPv4 with the help of a datagram format. (4)

b) Explain different types of ICMP messages. (6)

P.T.O.

97. a) Find the appropriate route from A to E in the following network through distance vector routing. (6)



by Describe congestion control and methods to handle congestion on a network.

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- Q8. a) Explain the characteristics and applications of UDP. Compare it to TCP.
 - b) Explain the process of connection establishment and termination in TCP. (4)
- 99. a) Describe the process of sending a message using the Digital (6)
 - b) Write short notes on the following:
 i) DNS
 ii) WWW

MCA-207 P2/2