Roll No.

Subject Code—6711

M.C.A. (Third Year) EY.AMINATION

(5 Years Integrated Course)

MCA-301 (CN)

COMPUTER NETWORKS

Time: 3 Hours Maximum Marks: 100

Note: Attempt any Five questions. All questions carry equal marks.

- (a) Discuss advantages of computer networks.
 Also discuss hardware and software used in it.
 - (b) Describe about the TCP/IP reference model.
- 2. (a) Discuss Shannon and Nyquest theory for data communication.
 - (b) Explain various types of Transmission Technologies.

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- 3. (a) What do you mean by channel allocation?
 Discuss various problems in it.
 - (b) Explain Token Ring, IEEE 802.5 standards.
- 4. (a) What is FDDI? How does it work?
 - (b) Describe about primary design issues of DL layer. Explain framing with help of example.
- 5. (a) Discuss design issues at network layer.
 Why is internetworking so difficult?
 - (b) Explain Hierarchical routing algorithm with the help of example.
- 6. (a) Compare transport services UDP and TCP.
 - (b) Discuss various elements of transports with their basic problems.
- 7. (a) Discuss SNMP protocol in detail.
 - (b) How does multi media work and useful to the society?

- 8. Write short notes on any two of the following:
 - (a) ATM
 - (b) CSMA/CD
 - (c) Ge-back-N
 - (d) DNS.