

2003 CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING(C-DAC) M.C.A

**END - TERM EXAMINATION
FOURTH SEMESTER [MCA] – MAY 2004
COMPUTER NETWORKS**

Paper Code : MCA-210

Time : 3 Hours

Maximum Marks : 60

Q1. (a) When and why computer networking is essential? Discuss the various key issues of computer networking.

(b) What is meant by Computer Network Architecture? Discuss client-server Architecture and its benefits.

Q2. (a) What are the theoretical basis of data communications? Discuss clientserver Architecture and its benefits.

(b) What is broad band? Discuss the broad band network.

Q3. What are computer network protocols? Indicate their purposes. Give some examples of data link protocols.

Q4. Discuss in detail two versions of ALOHA to solve the channel allocation problem.

Q5. What do you know about congestion control? Discuss the various algorithms for it.

Q6. What do you know about routing? Discuss the algorithm which you consider best in detail. Give your arguments for best algorithm.

Q7. What is an Internet? Discuss the network layer in it.

Q8. Write notes on the following:-

(a) TCP/IP model

(b) Wireless transmission

(c) Internetworking (c) Internetworking