

Exam. Code : 206703

Subject Code : 5199

M.Sc. Computer Science 3rd Semester

MCS-305 : NETWORKING PROGRAMMING

Time Allowed—3 Hours] [Maximum Marks—100

Note :— Attempt any *five* questions, all questions carry equal marks.

1. Write a detailed note on OSI model.
2. What is Zombie process ? How it differs from daemon process ? Write the critical issues related with these two types of processes.
3. (a) What is Port ? What is socket ? Write a note on popular port numbers used.
(b) What are wrapper functions ?
4. Explain any four protocols used by common Internet Applications.
5. Explain transport layer protocols used by IP based networks.
6. Explain various TCP socket system calls used by both, client and server.

7. (a) What is I/O multiplexing ?
(b) What do you mean by concurrent servers ?
8. (a) IPv4 vs. IPv6
(b) What is purpose of traceroute and netstat commands ?
(c) What is use of ping command ?
(d) What is socket interface ?