

Roll No

MCA - 504(D)**MCA. V Semester**

Examination, December 2015

Network Programming

(Elective - II)

Time : Three Hours

Maximum Marks : 70

- Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 ii) All parts of each question are to be attempted at one place.
 iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
 iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

1. a) Explain UUCP briefly.
 b) Write a short note on IPX.
 c) Compare TCP and UDP.
 d) Write a detailed note on system network architecture.

OR

What do we need communication protocols? Explain TCP in detail.

Unit - II

2. a) What are reserved ports? Give two examples.
 b) Write a short note on socket system call.
 c) How do sockets help in network programming? Explain.

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- d) Write a detailed note on asynchronous I/O.

OR

Explain multiplexing in detail.

Unit - III

3. a) What is DLL and what purpose does it serve?
 b) Write a short note on how sockets are used in windows environment?
 c) Write the advantages of using winsock API.
 d) Explain sending/ receiving data using sockets in windows environment along with simple code snippets.

OR

Write a detailed note on blocking and non-blocking I/O of sockets.

Unit - IV

4. a) Write a brief note on IPX/SPX procedure.
 b) Write a short note on datagram communication.
 c) How can windows and Novell Netware communicate with each other?
 d) Write a detailed note on Novell's windows drivers.

OR

Compare Novell netware and windows with reference to Networking facilities.

Unit - V

5. a) Write a brief note on remote login.
 b) Explain Trivial file transfer protocol.
 c) Write a detailed note on data and time functions.
 d) How can we create / write programs for TCP client and TCP server in C/C++/Java? Explain.

OR

How can we create / write programs for UDP client and UDP server in C/C++/Java? Explain.
