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Roll No

MCA-504(D)

M.C.A. V Semester

Examination, June 2020

Network Programming

(Elective - II)

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Explain the TCP client-server communication with neat TCP state transition diagram. 7
b) Explain internet socket address structures IPv4 and IPv6. 7
2. a) Explain system network architecture with neat diagram. 7
b) Explain in detail about the TCP/IP layers for internet working and management. 7
3. a) Specify the scenario where networking applications can be done using I/O multiplexing. 7
b) Explain the term socket address and socket system calls. 7
4. a) Explain in detail about the architectural overview of windows programming. 7
b) Explain with example the winsock class. 7

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5. a) Explain API window socket and blocking I/O. 7
b) Explain the format of a Novell Network IPX packet. 7

6. a) Explain with a diagram the steps that normally take place in a remote login. 7
b) Explain the differences between concurrent servers and iterative servers. 7

7. a) Explain connection-oriented communication with SPX. 7
b) Illustrate IPX/SPX implementation of DLL. 7

8. a) Explain the crashing and rebooting of server host in TCP client/server application. 7
b) Describe the syntax and purpose of the each of the following. 7
 - i) Socket
 - ii) Bind
 - iii) Accept
 - iv) Listen
 - v) Connect

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