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B. E. (Seventh Semester) Examination, April-May 2020/NOV-DEC 2020

(New Scheme)

(CSE Engg.)

NETWORK PROGRAMMING

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Each quesion contain (a), (b), (c) and (d) parts. Part (a) is compulsory and attempt any two from part (b), (c) and (d).

Unit-I

1. (a) What is UUCP?   2

   (b) Explain IPv4 and IPv6 address structure in detail. 7

(c) Explain application layer, Transport layer and network layer in the context of network protocol. 7

(d) Explain detailed organization of chatting application. 7

Unit-II

2. (a) Define socket. 2

(b) Explain various elementary system calls. 7

(c) Explain the significance of I/O multiplexing. What are the role of select and poll functions for implementing I/O multiplexing. 7

(d) What are different posix data types in the context of socket. 7

Unit-III

3. (a) Define DLL. 2

(b) Explain different APIs and their programming techniques. 7

(c) Explain blocking socket and blocking function in detail. 7

(d) What are the advantages of using DLLs in window socket API. 7

Unit-IV

4. (a) Define cryptography. 2

(b) Explain WAP architecture and services. 7

(c) Explain component technology in detail. 7

(d) Explain firewall and security techniques. 7

Unit-V

5. (a) Define web server. 2

(b) Write down the procedure to accept connection from browsers. 7

(c) Explain the concept of parsing data using string tokenizer. 7

(d) Explain the steps of creating Http server. 7