



K21U 0194

Reg. No. :

Name :



VI Semester B.C.A.. Degree (CBCSS - Reg./Supple./Improv.)

Examination, April 2021

(2014-2018 Admissions)

Core Course (Elective)

6B20BCA : E05 : NETWORK PROGRAMMING

Time : 3 Hours

Max. Marks : 40

PART – A
(Short Answer)

1. One Word Answer : (8×0.5=4)

- a) SCTP stands for
- b) Well known ports (0 through 1023) are controlled and assigned by
- c) fork system call is used for
- d) DNS means
- e) The default port number for http communication is
- f) A is a notification to a process that an event has occurred.
- g) The purpose of the state is to maintain information about the child for the parent to fetch at some later time.
- h) A I/O operation causes the requesting process to be blocked until that I/O operation completes.

PART – B
(Short Essay)

Answer any 7 questions : (7×2=14)

- 2. Write a short note on UDP.
- 3. State the purpose of SO_REUSEADDR and SO_REUSEPORT Socket options.

P.T.O.



4. What are the reasons for TIME-WAIT state ?
5. Write a note on Termination of a Server Process.
6. Define Socket Pair for a TCP connection.
7. List out the information maintained by Zombie State.
8. Explain IPV6 Socket address structure.
9. Write a note on str_echo() function.
10. How TCP NODELAY option is used while sending small packets ?
11. Write a program to determine host byte order.
12. Explain the syntax and purpose of str_cli() function.
13. Explain the relationship among six exec functions.
14. How a client running on IPV4 configured host communicate with a server in IPV6 host ?
15. Explain the syntax and use of gethostbyaddr function.

PART – C
(Essay)

Answer **any 4** questions :

(4×3=12)

16. Explain about the three way handshake TCP connection establishment.
17. Explain in detail about concurrent servers.
18. Write a note on the queues maintained by TCP for listening socket.
19. Distinguish getsockname and getpeername functions.
20. Explain about Raw Socket creation.
21. Explain the syntax and use of getaddrinfo function.
22. Write a note on tcp_listen function.
23. State and explain socket function for TCP.



PART – D
(Long Essay)

Answer **any 2** questions :

(2×5=10)

24. Explain about a simple Daytime Server.
 25. Explain the various TCP/IP protocols.
 26. Explain about socket options in detail.
 27. Explain in detail about DNS.
 28. Explain the syntax and use of functions : socket, connect and bind.
 29. Explain the various UDP server side system calls and getsocket, setsocket functions in detail.
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