



K20U 0194

Reg. No. : .....

Name : .....

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

Examination, April 2020  
(2014 Admission Onwards)

Core Course (Elective)

6B20BCA – E05 : NETWORK PROGRAMMING

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. Answer **all** questions.

- Port numbers are controlled and assigned by the \_\_\_\_\_.
- \_\_\_\_\_ convert an IPv4 address from a dotted-decimal string to its 32-bit network byte ordered binary value.
- The \_\_\_\_\_ function assigns a local protocol address to a socket.
- \_\_\_\_\_ is the largest WAN today.
- \_\_\_\_\_ does the conversion, from numeric (addrptr) to presentation (strptr).
- Expansion of DNS is \_\_\_\_\_.
- \_\_\_\_\_ is the default port number of HTTP connection.
- \_\_\_\_\_ is a connection less transport protocol. (8×0.5=4)

SECTION – B

Answer **any 7** questions of the following. **Each** question carries **2** marks.

- What do you mean by port number ?
- What are two reasons for the TIME\_WAIT State ?
- What are the two actions performed by the listen function is called only by a TCP server ?

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5. What are echo servers ?
6. Differentiate exit and \_exit functions ?
7. What are the parameters required to setsockopt function ?
8. State purpose of SO\_KEEPALIVE Socket Option.
9. What is a Socket ?
10. Write code to find higher order byte of a host.
11. What is a message queue ? (7×2=14)

SECTION – C

Answer **any four** questions. **Each** question carries **3** marks.

12. Write a simple version to implement TCP daytime server.
13. Write short note on UDP.
14. Write short note on Socket Address Structures.
15. Write short note on Connect, Bind, Accept functions.
16. Write short note on steps to terminate a server process.
17. Compare various signal sets. (4×3=12)

SECTION – D

Answer **any two** questions.

18. Explain with example how a client server connection can be established.
19. Example various Internet Services.
20. Explain Socket States.
21. Explain UDP system calls. (2×5=10)