



K18U 0188

Reg. No. :

Name :

VI Semester B.C.A. Degree (CBCSS – Reg./Supple./Imp.)
Examination, May 2018
Core Course (Elective)
6B20BCA : E05. NETWORK PROGRAMMING
(2014 Admn. Onwards)

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One** word answer : (8×.5=4)
- a) The function setsockopt() return _____.
 - b) fork() system call is used for _____.
 - c) _____ default port used in HTTP.
 - d) DNS stands for _____.
 - e) The function getservbyname() return _____.
 - f) In UNIX the component that controls the execution of the processes is called _____.
 - g) UDP stands for _____.
 - h) _____ return foreign protocol address associated with socket.

SECTION – B

Write short notes on **any seven** of the following questions. (7×2=14)

- 2. Explain error handling in Unix function.
- 3. What is the use of TIME_WAIT state in TCP connection ?
- 4. Explain Fork and exec functions.
- 5. Explain the fields present in sockaddr_in structure.
- 6. Describe briefly TCP Echo Client main function.
- 7. Explain TCP Connection Termination.

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8. How TCP_NODELAY option is used while sending small packets ?
9. Explain in brief the getsockopt function.
10. Write the syntax for getservbyport function.
11. What is the use of freeaddrinfo function ?

SECTION – C

Answer **any four** of the following questions.

(4×3=12)

12. Explain TCP Port numbers.
13. Explain Byte ordering functions.
14. Explain address conversion functions.
15. Describe TCP Echo Client str_cli function.
16. Describe in brief Generic socket options.
17. How getaddrinfo function handle IPv6 address ?

SECTION – D

Write an essay on **any two** of the following questions.

(2×5=10)

18. Explain IPv6 socket address structure and compare it with IPv4 and unix socket address structure.
19. Write a TCP Socket program to implement Echo Server/Echo Client.
20. Explain the various TCP Socket options in detail.
21. Explain get host by name, get host by name2 with resolver option and the structure these two points by their return value.