



K17U 0432

Reg. No. :

Name :

VI Semester B.C.A. Degree (CBCSS – Regular) Examination, May 2017
(2014 Admn.)

Core Course (Elective)

6B20BCA : E05. NETWORK PROGRAMMING

Time : 3 Hours

Marks : 40

SECTION – A

1. One word answer :

(8×0.5=4)

- a) The function getsockopt() return _____.
- b) exec() system call is used for _____.
- c) The User Datagram Protocol (UDP) is an example of a _____.
- d) The two protocols that make up the Transport layer of the TCP/IP protocol suite are _____ and _____.
- e) Listen system call is used for _____.
- f) _____ return local protocol address associated with socket.
- g) The function getservbyport() return _____.
- h) TCP stands for _____.

SECTION – B

Write short notes on **any seven** of the following questions :

(7×2=14)

2. Explain how to create TCP Socket.
3. Explain UDP protocol.
4. Define socket. Give structure of socket.
5. What is the purpose of bind and connect ?
6. Explain str_echo function.

P.T.O.



7. Describe briefly TCP Echo Server main().
8. Explain the use of TCP_MAXSEG socket option for a TCP connection.
9. Explain in brief the setsockopt.
10. Give the syntax for getservbyname function.
11. How getaddrinfo function handle IPv4 address ?

SECTION – C

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

(4x3=12)

12. Explain error handling using Wrapper functions.
13. Explain concurrent servers.
14. Explain Byte Manipulation functions.
15. Describe TCP Echo Client main().
16. Describe in brief TCP socket options.
17. Explain tcp_connect function.

SECTION – D

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

(2x5=10)

18. Explain connection establishment in TCP.
 19. Explain the elementary TCP sockets functions.
 20. Explain in detail the generic socket options.
 21. Explain the organization of domain name system.
-