K22U 0347

Reg. No. : ....

Name : ....

VI Semester B.C.A. Degree (CBCSS – OBE – Regular) Examination, April 2022
(2019 Admission)
Core Course
Discipline Specific Elective
6B20BCA-E02 : NETWORK PROGRAMMING

Time : 3 Hours

Max. Marks : 40

PART – A : Short Answer

Answer **all** questions.

(6×1=6)

1. _____ is the full form of UDP.

2. Which protocol is used for diagnostic applications ping and traceroute ?

3. Which function is used for creating new processes ?

4. Which function handles the TCP echo client processing loop ?

5. Which algorithm is disabled by TCP_NODMLAY socket option ?

6. Give the port number of HTTP.

PART – B : Short Essay

Answer **any 6** questions.

(6×2=12)

7. What are the two reasons for the TIME_WAIT state ?

8. Describe Transmission Control Protocol.

9. What is the function of listen function ?

10. List down two functions which convert an IPv4 address from a dotted decimal string to its 32-bit network byte ordered binary value. Explain.

P.T.O.

11. Explain the shutdown of server host.

12. What are the different socket states ?

13. Define TCP_MASKSMG Option.

14. What is the functionality of gethostbyname function ?

PART – C : **Essay**

Answer **any 4** questions.   (4×3=12)

15. Describe Protocol usage by common internet applications.

16. Write short notes on the allocation of port numbers.

17. What do you mean by IPv4 Socket Address Structure ?

18. Describe the main function of TCP Echo server.

19. List down the various functions to get or set the options that affect the socket.

20. Explain tcp_connect and tcp_listen functions.

PART – D : **Long Essay**

Answer **any 2** questions.   (2×5=10)

21. Explain TCP connection establishment and termination.

22. Write short notes on socket functions for elementary TCP client/server.

23. List down generic socket options and explain.

24. Briefly describe Domain Name System.

—————————————