



**2021/TDC/CBCS/ODD/
CSCDSE-502T/093**

**TDC (CBCS) Odd Semester Exam., 2021
held in March, 2022**

COMPUTER SCIENCE

(5th Semester)

Course No. : CSCDSE-502T

(Network Programming)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Answer any *fifteen* of the following as directed :

1×15=15

1. End-to-end connection is established _____
protocol of the TCP/IP suite.

(Fill in the blank)

2. Write an application of UDP.



(4)

19. What is network management?
20. Mention two network management tools.

SECTION—B

Answer any five of the following questions : $2 \times 5 = 10$

21. What are the main differences between TCP and UDP?
22. Write down the functions of transport layer protocol.
23. How does a UDP socket work?
24. How does server socket differ from client sockets?
25. What are socket options?
26. What is IP address lookup? Can someone find your house with an IP address?
27. Write the responsibilities of a network administrator.

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(Continued)

(5)

28. What is WWW? What are its features?
29. How do TCP and IP differ?
30. Write the importance of SNMP protocol in network management.

SECTION—C

Answer any five of the following questions : $5 \times 5 = 25$

31. Discuss the connection establishment phases of TCP.
32. Why does Netflix use TCP but not UDP for streaming video?
33. How do you implement client/server programming with sockets?
34. Discuss the different types of sockets used in network programming.
35. Discuss the select and poll function in I/O multiplexing.

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(Turn Over)



36. How many sockets does a UDP need? How would you implement UDP client/server communication?
37. What are the different services for remote login? Discuss.
38. Discuss the architecture of WWW.
39. Discuss the different components of network management.
40. Discuss the different network management protocols.
