

**2023/TDC(CBCS)/ODD/SEM/
CSCDSE-502T/093**

TDC (CBCS) Odd Semester Exam., 2023

COMPUTER SCIENCE

(5th Semester)

Course No. : CSCDSE-502T

(Networking Programming)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

SECTION—A

Answer *fifteen* questions, selecting *three* from each
Unit as directed : 1×15=15

UNIT—I

1. Define protocol.
2. What is SCTP used for?
3. How many layers are there in TCP/IP model?
4. UDP stands for _____.

(Fill in the blank)

(2)

UNIT—II

5. What is socket address?
6. Port number _____ provides an HTTP connection under TCP protocol.
(Fill in the blank)
7. What type of socket does UDP use?
8. On which layer of TCP/IP does socket work?

UNIT—III

9. What does bind() function do in socket programming?
10. What is the size of port in socket?
11. Why is I/O multiplexing needed in socket programming?
12. What does poll() function return?

UNIT—IV

13. Which protocol is used for remote logging?
14. Does WWW use TCP or UDP?
15. What is network virtual terminal?
16. What is the function of mail/message transfer agent?

((+3))

UNIT—V

17. What is network management system?
18. Name two debugging tools used in networking.
19. What is NTP used for?
20. What is port 161 and 162 used for?

SECTION—B

Answer five questions, selecting one from each
Unit : _____ $2 \times 5 = 10$

UNIT—I

21. Write down the functions of transport layer in OSI-ISO model.
22. Mention two advantages and disadvantages of transmission control protocol.

UNIT—II

23. Why are sockets used in networking?
24. Write the importance of signal in networking.

((4))

UNIT—III

25. Write down the characteristics of UDP/TCP sockets.
26. What do you mean by IP address lookup? Do mobile phones have IP addresses?

UNIT—IV

27. What is the role of network administrator?
28. Which OS is better to learn networking? Why?

UNIT—V

29. Discuss the goal of security management.
30. What do you mean by configuration management?

SECTION—C

Answer *five* questions, selecting *one* from each
Unit : 5×5=25

UNIT—I

31. Explain the connection establishment phases in TCP.
32. Discuss the different features of UDP.

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(5)

UNIT—II

33. Discuss the client-server architecture of TCP sockets in network programming.
34. What are the different types of sockets in networking? Explain them.

UNIT—III

35. Explain the different system calls in UDP client server socket programming model.
36. Discuss select and poll functions in socket programming.

UNIT—IV

37. Explain how HTTP response and HTTP request work.
38. Explain the architecture of WWW.

UNIT—V

39. Discuss the various areas of network management.
40. Explain simple network management protocol with its different components.

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