



2022/TDC/ODD/SEM/CSCDSE-502T/093

TDC (CBCS) Odd Semester Exam., 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*

UNIT—I

1. Answer any *three* of the following questions :

1×3=3

- (a) Name different types of protocol used in transport layer.
- (b) Define port number.
- (c) What is throughput?
- (d) What is flow control in SCTP?



27) (2)

2. Answer any *one* of the following questions : 2

- (a) Write down the use of UDP.
- (b) Write down the difference between reliable and unreliable process to process delivery.

3. Answer any *one* of the following questions : 5

- (a) Explain the difference between UDP and TCP.
- (b) Explain different TCP services to the processes at the application layer.

UNIT—II

4. Answer any *three* of the following questions :
1×3=3

- (a) What is socket?
- (b) How is socket created?
- (c) What are different stages for client?
- (d) What are the types of socket programming?

5. Answer any *one* of the following questions : 2

- (a) Write down the difference between socket and port.
- (b) What is a TCP/IP socket connection?

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(Continued)

(3)

6. Answer any *one* of the following questions : 5

- (a) How are signals handled in network programming? Explain with suitable program.
- (b) Draw the state diagram for server and client model of socket. Explain different stages for server and client for socket creation and execution. 2+3=5

UNIT—III

7. Answer any *three* of the following questions :
1×3=3

- (a) Define socket address.
- (b) Can multiple clients connect to the same socket?
- (c) What is polling in socket programming?
- (d) How is address lookup used to find any IP address?

8. Answer any *one* of the following questions : 2

- (a) How is select function different from poll function?
- (b) What are socket options?

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(Turn Over)



(4)

9. Answer any *one* of the following questions : 5

- (a) Explain UDP client/server model with example.
- (b) Explain different I/O multiplexing models used in UDP socket programming.

UNIT—IV

10. Answer any *three* of the following questions :

1×3=3

- (a) What is local login?
- (b) Define NVT.
- (c) What is the meaning of the character 'AYT'?
- (d) What is MTA?

11. Answer any *one* of the following questions : 2

- (a) What are different services of user agent?
- (b) Write a short note on MIME.

12. Answer any *one* of the following questions : 5

- (a) Explain different protocols of E-mail.
- (b) Explain Linux network administration.

(5)

UNIT—V

13. Answer any *three* of the following questions :

1×3=3

- (a) What is SNMP?
- (b) What is fault management?
- (c) What do you mean by troubleshooting?
- (d) Write the full form of MIB.

14. Answer any *one* of the following questions : 2

- (a) What are the functions of SNMP manager?
- (b) Write down the functions of network management system.

15. Answer any *one* of the following questions : 5

- (a) How can debugging be done in network management? Explain with different tools.
- (b) Explain the architecture of SNMP.
