

NOVEMBER/DECEMBER 2018

**MCS24 — UNIX NETWORKING
PROGRAMMING**

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) What are the Common shells used on UNIX systems? Explain.

Or

- (b) Briefly explain Kernel data structures for opening files.

2. (a) Write a short note on Command-Line Arguments.

Or

- (b) Briefly explain about BSD Terminal Logins.

3. (a) What are the limitations on pipes? Explain.

Or

- (b) Explain the condition variables in synchronization.

4. (a) Explain the generic socket address structure.

Or

- (b) Explain the listen function for elementary TCP sockets.

5. (a) Explain the UDP echo client main Function.

Or

- (b) Explain the Socket functions for UDP client-server.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Explain in detail UNIX File Systems with neat diagram.
7. Discuss in detail Thread Identification.
8. Explain the concept of Semaphores in UNIX.
9. Explain the rules for output on a Raw Socket.
10. Describe in detail the Debugging Techniques.