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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, April/May - 2018 LINUX PROGRAMMING

(Computer Science and Engineering)

Time: 3 Hours Max. Marks: 75 **Note:** This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART- A **(25 Marks)** 1.a) Write a short note on Filters. [2] What is a Field Buffer and a Record Buffer. [3] b) Explain briefly FIFO file in UNIX File System. c) [2] Write a short note on "mkdir" command. d) [3] Write a short note on Signal function. [2] e) Compare and Contrast Reliable and Unreliable Signals. f) [3] Write a short note on UNIX system V IPC methods. g) [2] Write a short note on "rclose()" library function. h) [3] Explain briefly about "setsockopt" system call. i) [2] Write a short note on Berkeley Socket. i) [3] PART-B **(50 Marks)** 2. Explain in detail about Control Structures. [10] OR 3.a) Explain in detail about Process Utilities. Write a short notes on security using file permissions. b) [5+5]4. Explain in detail about following File Operations: a) seek b) fcntl [5+5]OR 5. Explain in detail about File and Record Locking in UNIX. [10] 6. Explain in detail about Kernel support for Signals. [10] 7. Write a detailed note on following processes: a) Zombie processes b) Orphan processes. [5+5]8. Explain in detail about IPC between related processes using unnamed pipes. [10]

OR

Explain in detail about Kernel support for Semaphores.

10. Make a comparison of various IPC mechanisms.

Explain the usage of Stream Sockets using Client-Server Message handling example. 11. [10]

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