

Code No: R32054

R10

Set No. 1

III B.Tech II Semester Supplementary Examinations, April/May - 2019

UNIX PROGRAMMING

(Common to Computer Science and Engineering, Information Technology)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions

All Questions carry equal marks

- 1 a) Explain in detail about file permissions and process utilities with suitable examples. [8M]
- b) Describe about the following commands: awk, tar, cpio, tr, tee, uniq, and sort. [7M]
- 2 a) What is a shell? List out the shell responsibilities, shell meta characters and shell variables. [8M]
- b) Write a shell script to reverse the rows and columns of a matrix. [7M]
- 3 a) Discuss on UNIX file system structure with a neat sketch. [7M]
- b) Give the details about file and directory maintenance System calls. [8M]
- 4 a) What is a process? Explain waiting for a process in detail. [7M]
- b) Demonstrate about system call interface for process management of *exec* and *exit*. [8M]
- 5 a) Explain about interrupted system calls with example. [7M]
- b) Write the syntax of following alarm, pause functions. Explain each argument. [8M]
- 6 a) What is a pipe? Using pipe, how IPC can be implemented. [7M]
- b) Give brief description about the name spaces. [8M]
- 7 a) Write the structure for the semaphore set which is maintained by the kernel. [7M]
- b) Write a comparative study of adversary and mandatory locking. [8M]
- 8 a) Show the socket functions for elementary TCP client/server. [7M]
- b) Describe about Socket addresses and compare various socket address structures. [8M]
