

Code No: **R32054**

R10

Set No. 1

III B.Tech II Semester Supplementary Examinations, April - 2017

UNIX PROGRAMMING

(Common to CSE and IT)

Time: 3 hours**Max. Marks: 75**

Answer any FIVE Questions

All Questions carry equal marks

- 1 a) Write and explain the characteristics of Unix Operating System. [8]
- b) Discuss in detail the various modes of operations supported by vi editor. [7]
- 2 a) Give brief description about shell meta characters. [7]
- b) Write a shell script to find the largest number from four numbers. [E.x: 12 , 8, 5, 19: 19 is largest] [8]
- 3 a) Distinguish between getc(), getch (), getchar() and gets() [8]
- b) Discuss about the directory handling system calls. [7]
- 4 a) Describe the role of process identifiers in process control. [8]
- b) List the advantages and disadvantages of fork, vfork, exec and exit function calls. [7]
- 5 a) What is a signal? Why we need them? Explain signal function in detail. [8]
- b) Give brief description about interrupted system calls. [7]
- 6 a) How can we achieve inter process communication by using FIFOs. Explain. [8]
- b) How the different types of inter process communication differs from each other. Explain. [7]
- 7 a) Discuss in detail about locking of regions. [7]
- b) Which system call is used to create shared memory segment and explain it in detail. [8]
- 8 With the help of a neat sketch explain the various system calls involved in TCP/IP socket calls. 15