

Code No: J4001/R16

M. Tech. II Semester Regular Examinations, May-2017

ADVANCED UNIX PROGRAMMING

(Common to Information Technology (40) ,Computer Science (05), Computer Science & Technology (59) ,Computer Science & Engineering (58)

Time: 3 Hours

Max. Marks: 60

*Answer any FIVE Questions
All Questions Carry Equal Marks*

1. Explain Unix operating system architecture with a neat diagram. [12]
2. a What is an i-node? Explain the structure of i-node when multiple files are opened? [6]
b Write short notes on [6]
 - i. Shell variables
 - ii. I/O redirection
 - iii. Different ways of using for loop in Shell programming
3. a Explain about Unix file system with a neat diagram. [6]
b How to give permissions to the files in a Unix file system? [6]
4. a List out various shell variables and explain each with an example. [6]
b Write a shell script to calculate gross salary of employee with DA as 60% and HRA as 15%, and read basic salary through keyboard. [6]
5. a Write a shell script to find factorial of a given number? [6]
b How can you repeat a command 10 times using only a for loop. [6]
6. a In detail explain about grep family. [6]
b Explain about sed with usage. [6]
7. a Discuss the following in detail: [6]
 - i) Trap command
 - ii) Stty command
b Briefly discuss I/O redirection with example. [6]
8. a Explain about \$? Variable? Write a shell program using \$? [6]
b Discuss job control commands in detail. [6]
