

Code No: J4001/R16

M. Tech. II Semester Regular/Supple Examinations, June/July-2018

ADVANCED UNIX PROGRAMMING

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

Time: 3 Hours

Max. Marks: 60

Answer any FIVE Questions
All Questions Carry Equal Marks

1. a Write a brief history of UNIX operating system. \ 4M
b Explain the following commands with suitable examples: 8M
i) who ii) date iii) mkdir iv) stty
Pg No. 4 5 25 2 5, 4
2. a What are the possible file system security levels? How to change permissions of a file. 2 5M
b Explain about chmod, chown, chgrp commands with syntax and usage. 56 6M
3. a List out various shell variables and explain each with an example. 5 6M
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. 5 6M
4. a Briefly discuss awk programming. 4 5M
b What is grep? Why we are using it? Explain the grep family. 4 7M
5. a Write a shell script to display number of occurrences of a given word in a list of files. 5 6M
b Discuss how 'eval' command is executed with example. 5 6M
6. a What is a shell? Give brief description about the features of korn shell. 5 6M
b Discuss the following in detail: 5 6M
i) Trap command ii) Stty command
7. a Write a c program to create a chain of processes in which every parent has only one child. 5 6M
b How can you repeat a command 10 times using only for loop? 5 6M
8. a Write about command substitution concepts of UNIX. \ 5M
b Write a shell script to reverse any given number. 5 7M

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