

SUBJECT CODE :- 494
FACULTY OF ENGINEERING AND TECHNOLOGY
S.E.(CSE/IT) Examination Nov/Dec 2015
Unix & Shell Programming
(Revised)

[Time: Three Hours]

[Max. Marks: 80]

“Please check whether you have got the right question paper.”

- N.B i) Q.No.1 from section A and Q.No.6 from section B are compulsory.
 ii) Solve any two questions from the remaining each section.

Section A

- Q.1 Describe any five. 10
 a) Fork system call
 b) Zombie
 c) Shell
 d) Mkdir & rmdir commands
 e) Significance of “tee” command
 f) Umask
 g) Pipe
- Q.2 a) Explain Unix architecture with neat labeled diagram. 07
 b) Describe command structure with it types and explain flexibilities of command usage. 08
- Q.3 a) What is process? Explain the process creation mechanism with example. 07
 b) Explain the features of Unix operating system. 08
- Q.4 a) Discuss relative and absolute methods for changing file permissions. 07
 b) Explain find command .Describe the selection criteria’s for finding file with example. 08
- Q.5 a) Write short note on environment variables. 07
 b) Explain different modes of *Vi* editor and list the commands in each mode. 08

Section B

- Q.6 Describe any five. 10
 a) Difference between \$ and \$@.
 b) grep command
 c) Chop command
 d) Set command
 e) Tr command
 f) Character class
 g) Nice command.
- Q.7 a) Explain the following filters with options 08
 1) Paginate-Pr
 2) Sort.
 b) What is shell programming? Write a shell program which uses ‘Case’ statement. 07
- Q.8 a) Write a note on awk and explain built in variables in awk. 07
 b) What is sed? Explain addressing in sed, with suitable example. 08

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| Q.9 | a) Write a shell script to find an array element using binary search. | 08 |
| | b) Explain the use of “test” and [] to evaluate an expression in shell. | 07 |
| Q.10 | a) Explain split and join functions of perl. | 08 |
| | b) Explain variables and operators in perl. | 07 |