

SUBJECT CODE NO:- P-58
FACULTY OF ENGINEERING AND TECHNOLOGY
S.E.(CSE/IT) Examination MAY/JUNE-2016
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 remaining questions from each section.

SECTION A

- Q.1 Describe any five 10
 a) touch command
 b) umask
 c) chown
 d) Cp
 e) Cat
 f) bc
 g) Apropos
- Q.2 a) Which command is used for listing file attributes? Explain briefly the significance of each field of output. 07
 b) Explain the navigation in Vi editor. 08
- Q.3 a) Describe briefly the Unix architecture explaining the role played by the kernel and shell 08
 b) Explain categories of files supported by UNIX. 07
- Q.4 a) Explain job scheduling with ‘at’, ‘cron’ and ‘batch’ 08
 b) How to locate a file? What are the selection criteria’s used for locating files in UNIX. 07
- Q.5 a) Differentiate between soft link and hard link in UNIX operating system. 08
 b) Explain the three sources of standard input and standard output. 07

SECTION B

- Q.6 Describe any five 10
 a) expr
 b) substr function in perl
 c) head
 d) uniq
 e) wild cards
 f) difference between grep and egrep
 g) exec system call
- Q.7 a) Explain line addressing and context addressing in “Sed” with example 08
 b) Explain sort filter. Also discuss its important options with examples. 07
- Q.8 a) Explain following string functions in “awk” 08
 i) index() ii) length() iii) split() iv) substr()
 b) What is here document? Write a shell script which uses here document. 07
- Q.9 a) Write a shell script to display sum of the digits of a given number. 07
 b) Explain the shell’s for loop giving the possible sources of the list. 08
- Q.10 a) Write a Perl script to convert decimal number to binary 07
 b) What are basic regular expressions used by “grep”? 08