

**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