

III B. Tech I Semester Supplementary Examinations, May - 2019
UNIX PROGRAMMING
 (Common to Computer Science Engineering, Information Technology)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answer **ALL** the question in **Part-A**
 3. Answer any **FOUR** Questions from **Part-B**

PART -A

1. a) Write a short note on Unix components. [2M]
- b) Give the purpose of chmod command. [2M]
- c) Explain the significance of 'ls' command. [2M]
- d) Give a short note on GREP family of commands. [3M]
- e) Write a short note on shell variables. [3M]
- f) What do you mean by internal commands? [2M]

PART -B

2. a) What is command substitution and output redirection? Explain with illustrative examples. [7M]
- b) What are filters? Write in detail about any five filter commands. [7M]
3. a) Explain the Unix directory hierarchy. [7M]
- b) What are system calls? How are they differing from library functions? Explain with the help of suitable examples. [7M]
4. a) Write about the significance of Unix environment variables and describe the related commands. [7M]
- b) Write a script illustrating " **case esac**" selection statement. [7M]
5. Use the following file . Name it addresses.txt: [14M]
 Roger Longtwig:35 Midvale Ave.:Austin, TX:35432
 Brad Brookstone:1044 E. 32nd St.:NY, New York:10001
 Richard Smack:845 Pleasant Ter.:Dauberville, CT:06239
 Django Steinbart:10 E. Point Way:Atlanta, GA:30374
 Cliff Claymore:111 S. Main St.:Clevenger, IA:55472
 i) Create a command that will sort these by ZIP code into a file called addresses-sorted.txt.
 ii) Create a sed script that will replace any street abbreviation (such as St. or Ave.) or cardinal abbreviation (N., S., E., W.) with the full word.
 iii) Create a command that will reverse the "NY, New York" in the second line to "New York, NY".
6. a) Write a shell script to find the given string is palindrome or not. [7M]
- b) Write a note on shell's loop control structures. [7M]
7. a) What is a process? How do you create a process in Unix? Write about Zombie and orphan processes. [7M]
- b) Write a short note on the following commands: [7M]
 i) trap ii) stty iii) bg iv) at v) kill