

DEPARTMENT OF COMPUTER SCIENCE**QUESTION BANK (2018-2019****AY)****Subject: Unix and Shell****Programming Branch/Sem:****IV EEE / II****Regulation : R 13****UNIT- I**

- 1 a) Explain the unix kernel architecture 5M
b) Explain the following unix commands 5M
i) sstty ii) cp iii) tar iv) printf
- 2 a) Explain about UNIX features? 5M
b) Explain the following commands with suitable examples: 5M
i) who ii) date iii) mkdir iv) stty
- 3 What would be the effect of the following commands: 5M+ 5M
a) mkdir /usr/local/src/bash/{old, new, dist, bugs}
b) type printf c) echo -e "\t\tHellothere\c" d) echo -n "Hello there" e) printf "The number is %.2f\n" 100 4 a) What is kernel? Is it similar to the operating system? Explain. 5M
b) Explain the features of Unix. 5M
- 5 a) Explain the commands echo, man, cal 5M
b) Explain the commands cp, rm and cat with examples. 5M

UNIT II

- 1 a) Differentiate between head and tail. 5M

b) Explain about process utilities. 5M

2 a) Write a shell script for the following 4M

i) for display only the lines which are containing the word "unix".

b) For display only duplicate lines in a file. 4M

c) For display only 3 and 6 fields in a file. 2M

3 a) How grep works? Explain with examples. 5M

b) Write a shell script to display particular user files only. 5M 4a) Discuss about different modes of operation in vi editor. 5M

b) Explain cut and paste commands with suitable examples. 5M 5a) Explain file permissions and file handling utilities. 5M

b) Explain the following commands 5M

i) unlink ii) umount iii) tee

UNIT III

1 a) What is a shell? Explain standard streams in unix 5M

b) Explain tee command with examples. 5M

2a) Discuss how jobs are controlled in UNIX with suitable examples. 5M

b) Define the terms filters and pipes. Give a short note on them. 5M

3a) Explain the command that eliminates duplicate entries in a file along with options. 5M

b) How do you delete all leading and trailing spaces in all lines of a file? 5M 4a) What is filter and pipes? Explain with example. 5M

b) Write a shell script to count no of lines for a given file without using wc commands. 5M 5 a) Discuss about the sort command with examples.

b) Why should we use multiple expressions in chmod? Explain with an example. **UNIT IV**

1a) Explain about the various ~~www.FirstRanker.com~~ commands. 5m

- b) Write a shell script checking whether “rama” was logged in or not. 5M
- 2a) Write a program which use grep to search a file for a pattern and display the search patterns on the standard output. 5M
- b) How do locate lines beginning and ending with a dot using sed? Explain 5M 3) Discuss in detail about grep family of commands 10M
- 4a) What is a regular expression? Explain various types of grep 5M
- b) Write a grep(egrep) command that selects the lines from file1 that start with the string “UNIX” and end with the string “UNIX” 5M
- 5a) Explain awk scripts in detail 5M
- b) Explain the system commands in awk with example 5M

UNIT V

- 1a) Explain the following i) Trash File ii) Terminal File 5M
- b) Write each of the following file expressions in Korn shell 5M
- i) file1 is empty ii) file2 is not readable
- 2a) List korn shell features and explain the command history of korn shell. 5M
- b) Explain about command execution process of korn shell. 5M 3a) Explain in detail about any four string functions. 5M
- b) Write an awk program to print only the odd numbered lines of a file. 5M 4a) How to find the exit status of a command? Discuss. 5M
- b) Write a shell script for performing the arithmetic operations. 5M 5a) What is the format for an instruction in korn shell? 5M
- b) Find the line that does not match a regular expression in korn using grep. 5M

UNIT VI

- 1a) Describe about “eval” command in C Shell with an example. 5M

b) Differentiate between the special files of C shell and Korn shell 5M
2a) Explain about the features of C shell.

5M

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- b) Write a shell script to print the reverse string on the screen. 5M
- 3a) Explain various Special Parameters and Variables in C shell programming. 5M
- b) Explain about Argument Validation in C shell. 5M
- 4a) Explain about Environmental Variables and On-Off Variables. 5M
- b) Write a C shell script that accepts a file name as argument and tells whether the user is having read, write and execution permissions to that the file or not? 5M
- 5a) Describe C shell features 5M
- b) Explain while , foreach and repeat loop in C shell 5M

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