Question Paper

Exam Date & Time: 24-Apr-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal School of Information Sciences (MSIS), Manipal Second Semester Master of Engineering - ME (VLSI Design) Degree Examination - April / May 2024

Scripting for VLSI [VLS 5203]

Marks: 100 Duration: 180 mins. Wednesday, April 24, 2024 Answer all the questions. 1) Create a shell script to do the following task and explain the script. (10)• List all the files where the file name starts with numeric. Print the kernel version. • Print the default shell. Give read, write and execute permission to owner, execute and write permission to group, only execute permission to the guest to all the file name starts with "a". • Delete all the filenames that ends with "z".[L3 CO1] [1X10=10 Marks] Write a shell script that takes a name of a folder, and delete all sub folders of size 0.[L3 CO1] (10)2) [1X10=10 Marks] 3) Use grep command and regular expression to solve the following task (10)• Line has at least one period. Line has a human-readable IP address • Count the total number of "pattern" present in the file • List all the file name which have the "pattern" in the file[L3 CO2] [4X2.5=10 Marks] 4) Write the commands and explain using sed to (10)• Delete lines that do not contain the word "run" • Print alternate lines from line 3 • Replace the "clk" with "reg" only in the 3rd occurrence. • remove all the occurrences of the word "jhon" except the first one in a line with in the entire file?[L4 CO2] [4X2.5=10 Marks] Explain how awk is used in reporting with an example. [L3 CO3] [1X10=10 Marks] 5) (10)Write a Perl script (10)• To get the filename from the user and check the file exists or not. Compare chop and chomp with an example. [L3 CO3] [1X10 =10 Marks] 7) Asha, research intern is new to Linux environment. Help her to do the following tasks (10)

Identify all processes that you own on the host.

Send the foreground job to background

Kill the process with id "5126"

• Check the diskspace every Monday 4AM. [L3 CO1] [1X10=10 Marks]

8) Write a regular expression to

(10)

- Find all patterns that begins with g or any digit from
- Find all patterns that begins with "clk"
- Find lines in a file where the pattern "clk" occurs at least twice
- Find the line in a file where the pattern "clk" or "buf" occurs at least twice [L3 CO3] [1X10=10 Marks]
- 9) Write a program in perl to read a string and a number and prints the string the number of times indicated by the number, on separate lines and explain the script.[L3 CO3] [1X10 =10 Marks]
- 10) Write the commands with respect to git

(10)

- List the branches
- Move to the branch "b1"
- Find out the current branch name
- List out the files of the committed branch[L3 CO1 PO1] [1X10 =10 Marks]

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