## **Question Paper**

Exam Date & Time: 03-Jun-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 (Makeup Exam) - June 2024

Scripting for VLSI [VLS 5203]

## Marks: 100 Duration: 180 mins. Monday, 03 June 2024 Answer all the questions. 1) Use Metacharacters/Globbing to do the task given below. (10) Delete file whose name contains numeric values. To list all the directories that start with a,b,c,e use the command Copy all the files that start with "sfvlsi" to the /lesson directory List all the files starts with intel Copy all files that have exactly three characters from /home/test to /home/exam [L3 CO1] [5x2=10 Marks] 2) (10)Write a shell script sum.sh that takes an unspecified number of command line arguments (up to 9) of integer and finds their sum. Modify the code to add a number to the sum only if the number is greater than 10 [L3 CO1] [1X10=10 Marks] 3) Use grep command and regular expression to solve the following task (10) To pick out lines that have at least two p's followed by any number of letters followed by 'ore'. The p's do not have to be next to each other. • Begins with a decimal digit: 0 through 9. • Begins with a hexadecimal digit: 0 through 9, a through f, or A through F. • Entire line is a three-digit, decimal value. [L4 CO2] [1X10=10 Marks] Explain the command "s" with respect to sed with examples. 4) (10)[L4 CO2] [1X10=10 Marks] (10)5) Compare between the Build-in-variables with respect awk with an example. NR vs. FNR RS vs. FS ORS vs OFS ARGC vs ARGV [L4 CO3] [4X2.5=10 Marks] (10)6) Explain conditional statements in Perl scripting 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)

- a. To copy a file to a remote Linux host, with the hostname our-server.
- b. To execute the script "compile.sh" in the background.
- c. To move background job to foreground with the job id 5.
- d. Delete all the /tmp files every Sunday 4PM.

[L3 CO1] [1X10=10 Marks]

8)

9)

10)

Write a Regular expression for the given conditions.

(10)

- Pick the line that should start and end with the same word.
- Pick the line that contains the date with the pattern "dd/mm/yyyy" Note: d,m,y is numeric value .
- Switch the places of the first and second word on each line.
- Replace all vowels (a,e,i,o,u) with two copies of that same vowel.

## [L3 CO3] [4x2.5 = 10 Marks]

- Create a script called foods.pl that asks the user for their favorite foods. Ask the user to enter at (10) least 5 foods, each separated by a space (or some other delimiter). Store their answer in a scalar. Split the scalar into an array. Once the array is created, have the script do the following: • Print the array
  - Print the number of elements in the array

• Create an array slice from three elements of the array and print the new array [L3 CO3] [1X10 =10 Marks]

Write the commands with respect to git.

(10)

- Difference between working directory and staging
- Difference between working directory and repo
- Difference between staging and repo
- List the files in the repo

[L3 CO1 PO1] [1X10 =10 Marks]

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