

Question Paper

Exam Date & Time: 29-Nov-2018 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES

SECOND SEMESTER MASTER OF ENGINEERING - ME (VLSI DESIGN)

Scripting for VLSI [EDA 612]

Marks: 100

Duration: 180 mins.

END SEMESTER DEGREE EXAMINATION NOVEMBER 2018

Answer all the questions.

- 1) Write one line script and explain the resultant scripts [5X2=10 Marks] (10)
 - a. List all files whose 2nd letter is "e" or "f"
 - b. Remove all the files having "i" as second letter in the folder
 - c. Give only execute permission to the owner or user of all the files starts with "a"
 - d. Rename all the files with extension .c to .cpp in the current working directory and it has to ask confirmation before renaming.
 - e. Delete the directory "by17" with its contents.
- 2) Solve the following task using **grep** command [5X2=10 Marks] (10)
 - a. Print all the lines not containing the pattern "hello" in the file "file1".
 - b. Print all the lines in the file "file1" containing "bash" or "Bash" with lines numbers.
 - c. Print only file names which containing "bash" in the current the current directory.
 - d. Print all the lines containing only "bash" in the file "file1".
 - e. Print all the lines starts with smaller case letters in the "file1".
- 3) Write **sed** scripts that will do the following. [4X2.5=10 Marks] (10)
 - a. Append the string2 at every place string1 is present in the file "test"
 - b. Print all the even number of lines from the file "test"

c. Insert a blank line below every line which matches "Manipal" in the file "test"

d. Insert a blank line above and below every line that matches "SOIS" in the file "test"

4) Write a **awk** script and explain (10)

[8+2=10 Marks]

a. To simulate wc command

b. To delete 3rd and 5th line of a file

5) Explain the utilities in Linux with an example for each given below. (10)
[5X2=10 Marks]

a. head

b. paste

c. cut

d. join

e. grep

6) Write a shell script to (10)

[5X2=10

Marks]

a. Get the file name from the user and reports on whether it is a directory or file

b. It has to accept one or more file names as command line arguments and converts all of them to uppercase.

7) Write the following regular expressions and explain using **Perl** script [4X2.5=10 Marks] (10)

a. Match a number which is composed only of even digits, including 0.

b. Match a number which may be negative or positive, may have a decimal point.

c. Match a pattern consist of smaller case characters of 4 characters long.

d. Match the pattern which starts with uppercase character.

8) Explain simple if, multi-level branching and unless if with an example using **Perl**. (10)
(1x10=10)

9) Write a **Perl** program (10)

[4X2.5=10 Marks]

a. To get person name and corresponding phone from the

user and store in a hash.

b. Get the name from the user and check whether the name is already exist or not.

c. Display the name sort by name.

d. Count total number of contacts are there in the hash.

- 10) Write short on ***makefile***. Elaborate on the necessity of ***makefile*** (10)
with an example.

[1x10=10 Marks]

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