

Question Paper



MANIPAL UNIVERSITY

SCHOOL OF INFORMATION SCIENCES
SECOND SEMESTER MASTER OF ENGINEERING - ME (VLSI DESIGN)
DEGREE EXAMINATION - NOVEMBER-2017
DATE : Monday, November 20, 2017
TIME : 10:00AM - 1:00PM
Scripting for VLSI [EDA 612]

Marks: 100

Duration: 180 mins.

A

Answer all the questions.

- 1) Explain the use of the following wildcard characters in file name generation giving an example of each one: "*", "[]", ".", and "?". (10)
- 2) Write a bash script (10)
 - a. To get the account name from the user
 - b. Check the account is exists or not
 - c. If account don't exists create an account in the same name
 - d. Count total number of user account
- 3) Use grep command to do the following task (10)
 - a. To pick out lines with at least 40 characters
 - b. To pick out lines without Perl
 - c. Print the line which have both "Sir and Madam"
 - d. Count total number of empty lines in the file
- 4) Explain the following sed commands with an example (10)

a. s b. p c. y d. q e. d
- 5) Write a awk script use marks.txt and explain (10)

Sno	name	sub1	sub2	city
1	anil	89	90	udupi
2	joy	78	90	karwar
5	jane	88	56	kargil

 - a. To print all records between the lines that match anil and those that match Jane
 - b. Print records for all student with marks below 89 on sub1

- c. Compute average for all students whose name contains the letter o
- d. Count total number of records
- 6) Explain the following Built in functions with respect to Perl script (10)
- a. Splice b. shift c. Join d. chomp
- 7) Explain the following pattern matching operators with respect to Perl (10)
- a. {} b. ^ c. \$ d. *
- e. ?
- 8) Write a Perl program to (10)
- a. Get the file name from the user
- b. Check the file is exist or not
- c. Check the file is empty or not
- d. Check the file have execute permission or not
- 9) Write short on "Makefile". Elaborate the necessity of it with an example. (10)
- 10) Complete the following tasks using power utilities (10)
- a. Count total number of lines in a file
- b. Convert upper case in to lower case
- c. Count total number of unique lines from the file
- d. Sort the file based on month

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