Question Paper

Exam Date & Time: 17-Apr-2018 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES (SOIS)
SECOND SEMESTER ME - (VLSI DESIGN)
DEGREE EXAMINATION- APRIL/MAY 2018
Tuesday, April 17, 2018
Time: 10.00 am to 1.00 pm
Scripting for VLSI [EDA 612]

Marks: 100 Duration: 180 mins.

Answer all the questions.

a. Define the term Kernel and Shell
b. Write a script to print the current process id, check for the currently running background process, kill it and launch a new process in the background, print its PID Explain the working of the script [2x5=10]

Marksl

Assume that you have several C programs in the directory "cpgms" (names ending in ".c"). Write a Grep command [2X5=10]

Marks]

- a. To print all filenames which is having assignment operator"=="
- b. To print all the lines starting with "/*" and end with "*/"
- c, To print all the lines other comment line
- d. To count total number of empty lines
- e. To print all the lines matching < stdio.h >

(10)

- Write the commands and explain using sed [5X2=10 Marks]
 - a. Prints the first 3 lines of a file.
 - b. Replace string A to B, (ignore case)
 - c. Delete the lines from 5 to 8
 - d. Delete contents of file
 - e. Replace string A to B only on lines contain C
- 4) Perform the following functions using AWK by using below (10)

file	"awk1.txt":	[4X2.5=10 Marks]
	O	

file "awk1.txt": [4X2.5=10 Marks]					
SNO MARK2	SNAME	ATTENDANCE	MARK1	L	
1 2	Joe Mary	89 90	45	56	
3	Mary Lara	67	56	78	
 a. Calculate average marks b. List students names c. Calculate total number of students whose attendance is > 80% d. Print JOE's record e. Print all the records without marks Explain the utilities in Linux with an example for each given (10) below. [4X2.5=10 Marks] a. Sort b. uniq c. comm d. diff 					
a Write a shell script get the number from the user and display whether its prime number or not. b. Write a shell script to get the value from the user and check whether user entered integer or character [2X5=10 Marks]					
Write sh	nort notes on	a) transliteration of b) Substitute ope	-	(10) erl with	
	t examples 0 Marks]	·			
to [5X2=1 a. Creat	-	store name of the contractions of the contraction of the contraction of the array	ountries.	(10)	

5)

6)

7)

8)

- c. Replace first and second element with new values
- d. sort the values of array based on length of element
- e. delete the second element from the array.

Write a Perl script using file handling 9) (10)[2.5X4=10Marks]

- a. Get the file name from the user
- b. Open the file, if unsuccessful, print error message and

exit

- c. Add line numbers to the content.
- d. Print the total number of lines in the file
- Explain the terms with an example with respect to version (10) control [4X2.5=10 Marks]
 - a. Repository
 - b. Checkout
 - c. Import
 - d. Commit

-----End-----