Question Paper



MANIPAL UNIVERSITY

SCHOOL OF INFORMATION SCIENCES FIRST SEMESTER Master of Science- MSc (INFORMATION SCIENCE) DEGREE EXAMINATION- NOVEMBER 2017 (Repeater)

Date: Friday, November 17,2017 Time: 10:00AM -1:00PM

Linux and C programming [MIS 501]

Marks: 100 Duration: 180 mins.

Answer all the questions.

1)	Explain the following example	(10)		
	a) Touch b) cat uname	(5 * 2) c) mkdir	d) In	e)
2)	Explain grep comma	(10)		
3)	Consider a file, data content.	(10)		

Anil Sharma			Vaishali Nagar
science	45	67	
Manoj Gupta			Sri Nagar Road
commerce	66	89	
Kamal Sharm	a		Shastri Nagar
commerce	81	32	
Rama Sharma	3		Vaishali Nagar
commerce	45	91	
Chirag Harwa	ni		Vaishali Nagar
science	34	63	

Write the AWK script for the following:

- (a) Show all the lines/records between the specified range, to be entered by the user
- (b) Show all the records having the pattern Vaishali Nagar in it
- (c) Replace the pattern science with commerce
- (d) Print all the contents of this file along with the total of two subjects of each student

For the gi	iven database		(10 * 1)
101	Aditya	0	14/11/2012
current 102	Anil	10000	20/05/2011
saving 103	Naman	0	20/08/2009
current 104	Rama	10000	15/08/2010
saving 105	Jyotsna	5000	16/06/2012
saving 106 Current	Mukesh	14000	20/12/2009
107	Yashasvi	14500	30/11/2011
saving 108 current	Chirag	0	15/12/2012
109 Current	Arya	16000	14/12/2010
110 saving	Puneet	130	16/11/2009
Give outp i) sed -n '	out of sed com 1,2p' bank.lst '\$p' bank.lst	mand:	
iii) sed -n	'3, \$!p' bnk.ls	st	
iv) sed -n	'3, \$ p' bank.l:	st	
v) sed -n	'\$!p' bank.lst		

viii) sed 'i\ This is bank file 'bank.lst

ix) sed -n '/[Cc]urrent/p' bank.lst

6)

x) sed -n '/current/w bkk.lst' bank.lst

Explain the following stages with respect to C Compilation (10)5) Model (2.5 * 4)

> b. Compiler a. Preprocessor C. Assembler d. Executable

Explain the following functions used for file management in (10)

	C. (2.5 * 4)	
	a. fopen() b. fputc() c. fgetc() d. fclose()	
7)	Bring out the difference between typedef and #define. Explain with an example	(10)
8)	Define Structures. Write a program to read and display ten employee information like EmployeeID, EmployeeName, EmployeeAge and Salary. Display the details of employees whose age is between 21 and 26	(10)
9)	Write a program in C to copy the content of one file to another file with appropriate comments	(10)
10)	Write a Program to create two matrices. Write separate functions to ADD two matrices and Compare two matrices	(10)
	End	