Roll No.	Total No. of Pages: 2	

MCA(6/7)/MX

5277

Linux and Shell Programming

Paper: MCA-403

Time: Three Hours]

[Maximum Marks: 50

Note: Attempt any **FIVE** questions in all, selecting at least **ONE** question from each Unit.

UNIT-I

- 1. (a) Explain the process of logging in and logging out in Linux. 5
 - (b) Explain the purpose of following commands with the help of examples:
 - i) script (ii) man (iii) ls (iv) find (v) l
- (a) What do you understand by environment variables in Linux?
 What is their significance? Write and explain the purpose of various environment variables.
 - (b) Explain various types of files in Linux/Unix. Also explain the Unix file system.
- 3. (a) Explain various control structures in shell programming. 5
 - (b) Write down a shell program to copy a file without overwriting.

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UNIT-II

- 4. (a) Write and explain the extended regular expression used by egrep and awk and IRE and TRE regular expressions used by grep and sed.
 - (b) Explain the various option utilized by sed with the help of examples.

5.	. (a) Explain the various privileges given to the administrator i		ux.	
٥.	(4)		5	
	(b)	Explain the rc Scripts used by init in brief.	5	
6.	(a)	Explain how job control is done with the help of at, batch, c	ron	
		and time.	5	
	(b)	Discuss various features of perl in Linux.	5	
UNIT-III				
7.	(a)	Explain the working modes in vi editor. What are the vari	ous	
	()	regular expressions character used by vi?	5	
	(b)	Explain how gdb is useful in debugging in Linux.	5	
8.	(a)	Explain how static and dynamic libraries can be built and u	ised	
		in Linux.	5	
	(b)	Write short notes on ldd and soname.	5	
9.	Ext	plain how makefile is useful in managing large 'C' projects	with	
	_	help of an example.	10	
10.		Write a short note on Linux I/O system.	5	

Write short notes on Signals and Signal Handler in Linux. 5

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