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Code No: 824AB

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA IV Semester Examinations, June/July - 2018 LINUX PROGRAMMING

Time: 3hrs Max.Marks:75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

		5×5 Marks = 25
1.a)	How can you debug the shell scripts? Explain.	[5]
b)	What are soft links? And What are hard links?	[5]
c)	Differentiate threads and processes.	[5]
d)	Explain popen () system call.	[5]
e)	What are the advantages of Berkeley sockets?	[5]

PART - B

 $5 \times 10 \text{ Marks} = 50$

- 2.a) Explain Backup utilities.
 - b) Write a shell script that allows a user to view, add, delete or modify a setting in a configuration file? [5+5]

OR

- Develop an AWK program to summarize from the list of all processes, a count of processes run by every user (including root).
 - b) Write about text processing utilities.
 [5+5]
- Differentiate between the following terms:
 - a) getc() Vs fgetc()

b) stat() Vs fsat()

c) printf() Vs fprint()

d) scanf() Vs fscanf().

[5+5]

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- Write a program to print the type of a file for each command line argument. [10]
- 6.a) What are the signals that are not ignored or blocked? Explain the reason behind it with an example?
 - b) Illustrate SIGKILL and SIGINT with an example program.

[5+5]

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- 7.a) Differentiate between fork() and vfork().
 - b) Write the syntax of six versions of exec functions and also explain how these functions differ from each other. [5+5]





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8.	Explain the following concepts about pipes:				
	 a) Pipes between two process 	b) Pir	es among three proce	sses.	[5+5]
		OR	1		-
9.a)	a) What is message queue explain with example?				
b)	Write a program to implement two-way communication using pipes.			es.	[5+5]
10.	. Explain a stream socket with a illustrative example for client/server program.			[10]	
		OR	1		
11.	Explain briefly about the following socket APIs with clear syntax:				
	a) socket() b) bind() c) li	isten()	d) accept()	e)connect().	[10]
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