

Code No: 813AM

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

LINGATROGRAMMING		
	: 3 Hours Max This question paper contains two parts A and B.	. Marks: 60
Note.	Part A is compulsory which carries 20 marks. Answer all questions consists of 5 Units. Answer any one full question from each unit. Each marks and may have a, b, c as sub questions.	
PART - A		
		5×4 Marks = 20
1.a)	Explain command substitution.	[4]
b)	Explain the functionality of lseek() function.	[4]
c)	What is the difference between wait() and waitpid().	[4]
d)	With the help of syntax explain popen() function.	[4]
e)	Explain how to perform IPC between processes over a network.	[4]
PART - B		
		$5 \times 8 \text{ Marks} = 40$
2.a)	Explain various process utilities available in linux.	
b)		
	supplied as arguments to it.	[4+4]
2 0)	Daviden on AWV preserve to suppressize feet the list of all prese	a of
3.a)	Develop an AWK program to summarize from the list of all processes, a count of	
b)	processes run by every user (including root). Write about text processing utilities.	[4+4]
0)	write about text processing utilities.	[4+4]
4.	Differentiate between the following terms:	
••	a) getc() Vs fgetc() b) stat() Vs fsat()	
	c) printf() Vs fprint() d) scanf() Vs fscanf().	[8]
	OR	
5.	Explain the file and record locking techniques with relevant example code snippet? [8]	
6.a)	Explain the layout of a C program image in main memory.	
b)	Define orphan process. Write a program to illustrate the orphan process	concept [4+4]
0)	OR	concept. [414]
7.		
	status and the parent should print the sum?	[8]
8.	Describe the API provided by linux for semaphores.	[8]
	OR	
9.	Write a program and explain how to transfer a large amount of	
	processes using Message queues?	[8]

10.

11.

Describe Socket system calls used for connectionless protocol with syntax and usage.[8]

Explain with a program how to copy file data from server to client using shared memory?