R16

Code No: 138GH

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, September - 2020 LINUX PROGRAMMING

(Electronics and Communication Engineering)

Time: 2 Hours Max. Marks: 75

Answer any Five Questions All Questions Carry Equal Marks

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1.a)	Explain briefly about various backup utilities and process utilities with syntax, options and example for each.	
b)	Discuss briefly about I/O redirection operators in Linux.	[8+7]
2.a) b)	Differentiate between chown(), fchown() and lchown() functions. Illustrate the need of lseek() function with an example code.	[7+8]
3.a) b)	With the help of a program, illustrate the use of exit() and _exit() system calls. Give a brief description on real IDs and effective IDs.	[8+7]
4.a) b)	List and explain various APIs related to Message Queue IPC mechanism. Write about kernel support for messages.	[8+7]
5.	Explain briefly about the following socket APIs with clear syntax: a) socket() b) connect() c) send()	[15]
6.a) b)	Discuss various system commands in awk. Write a shell script to illustrate the 'cp' command without using it.	[7+8]
7.	Explain the following file I/O system calls: a) open() b) read() c) write() d) close()	[15]
8.a) b)	Differentiate between fork() and vfork() system calls. Demonstrate alarm(), pause(), abort(), sleep() functions.	[7+8]

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