R16

Code No: 138GH

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

(Electrical and Electronics Engineering)

Time: 2 Hours Max. Marks: 75

Answer any Five Questions All Questions Carry Equal Marks

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1.a) b)	What are the features of LINUX Operating System? List and explain various Process utilities and Networking utilities.	[7+8]
2.a)	Explain various system calls used to copy the content of a file to another fil illustrative example program.	e with an
b)	What is the purpose of dot(.) and dot dot() directories in the file system?	[10+5]
3.	Derive with neat block diagram the sharing of open files between parent after fork.	and child [15]
4.	Draw and explain about the "Kernel data structure for a semaphore set".	[15]
5.	Describe the following socket APIs with clear syntax: a) socket() b) connect() c) send()	[15]
6.a) b)	Discuss briefly about shell meta characters and shell positional parameters. Write a shell script to illustrate 'ls' command without using it.	[7+8]
7.a) b)	Differentiate between root directory, home directory, parent directory. Explain the following functions: chdir(), fchdir(), seekdir().	[8+7]
8.a) b)	Explain the structure of a signal() function with an example. What are the phases in signaling process?	[7+8]

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