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

## Time: 3hrs

## Answer any five questions All questions carry equal marks

1.a)	Write a shell script that determines the period for which a specified user is w the system?	vorking on
b)	Explain reliable and unreliable signals.	[6+6]
2.a) b)	Write about directory management system calls. Differentiate pipes and named pipes.	[6+6]
3.a) b)	Write about orphan process. Write a C program to create a zombie process.	[6+6]
4.	Write a C program to create a message queue with read and write permissions t 3 messages to it with different priority numbers.	o write [12]
5.a) b)	What are semaphores? Explain with an example. Write a note on POSIX thread APIs.	[6+6]
6.a) b)	Write about shell meta characters. Differentiate soft links and hard links.	[6+6]
7.	What is socket? Explain socket system calls for connection oriented protocol.	[12]
8.	Write short notes on the following: a) Socket addresses b) Stream errors	
	c) FIFO's.	[12]

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Max.Marks:60

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