Q.P. Code:18MC9115 **R18**

Reg. No: | | | | | | | | | | |

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

MCA II Year I Semester Regular Examinations Nov/Dec 2019

LINUX PROGRAMMING

Time: 3 hours Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	**a**	Explain file handling utilities.	**6M**
	b	List some linux commands on a directory utilities with examples.	**6M**
		OR	
2	**a**	Define shell. Describe the responsibilities of a shell.	**6M**
	b	Write short notes on here documents.	**6M**

UNIT-II

3	**a**	Explain file system structure with neat diagram.	**6M**
	b	Explain different types of files in linux.	**6M**
		OR	
4		Explain the following a) fseek b) fgetc c) getc d) fputc e) putc	**12M**

UNIT-III

5	**a**	Explain fork() and vfork() system calls with their differences.	**6M**
	b	Explain the steps of how kernel supports a process.	**6M**
		OR	
6		Briefly explain following with program: a) ZOMBIE process. b) ORPHAN process.	**12M**

UNIT-IV

7	**a**	Define IPC? Explain IPC using FIFOs.	**6M**
	b	Write short notes on IPC by using Message Queues.	**6M**
		OR	
8		Explain in detail about Linux APIs for shared memory.	**12M**

UNIT-V

9	**a**	What is a Thread? Differentiate thread with process.	**6M**
	b	Explain about thread life cycle with neat diagram.	**6M**
		OR	
10		Explain socket system calls for connection oriented and connectionless protocol.	**12M**

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