R18

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

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA II Year I Semester Supplementary Examinations November-2020
LINUX PROGRAMMING
(MCA)

Time: 3 hours   Max. Marks: 60

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

UNIT-I

1	**a**	Explain various file permissions in linux.	**6M**
	b	List and explain various networking commands.	**6M**

OR

2	**a**	Write a short note on input and output redirections.	**6M**
	b	Write a shell program to find the factorial of a given number.	**6M**

UNIT-II

3	**a**	Define inode and discuss various file types used in linux.	**6M**
	b	Write short notes on Low level file access.	**6M**

OR

4	Explain the following system calls a) fcntl b) read c) write d) lseek	**12M**

UNIT-III

5	Explain process attributes and steps to control the process.	**12M**

OR

6	Explain signal functions in detail.	**12M**

UNIT-IV

7	**a**	Explain IPC between processes on different systems.	**6M**
	b	Explain shmget, shmctl, msgget and msgctl.	**6M**

OR

8	**a**	Write about library functions popen() and pclose().	**6M**
	b	What is the difference between named and unnamed pipes?	**6M**

UNIT-V

9	**a**	Explain POSIX thread API in detail.	**6M**
	b	Explain the synchronization of threads by using mutexes.	**6M**

OR

10	Explain the typical client/server model with diagram.	**12M**

*** END ***