Regulation R18 *Subject code:2P5FE*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech V Semester Supplementary Examinations, February 2024

LINUX PROGRAMMING

(INFORMATION TECHNOLOGY)

Maximum Marks: 70 Date:27.02.2024 Duration: 3 hours

Note: **1. Question paper contains two parts A and B.**
2. Answer all questions in Part A, Each question carries 1 mark.
3. Answer 5 questions in Part B out of 10 questions. Each question carries 12 marks.

	Part-A		
Answer all the following questions	(10X2M=20 Marks)	CO	BTL
1	Define WC command with syntax.	1	L1
2	Define shell scripting?	1	L1
3	List the attributes of a file?	2	L1
4	Why do we need chmod() and fchmod() functions	2	L1
5	Define zombie process.	3	L1
6	Define signal.	3	L1
7	What are the various types of pipes?	4	L1
8	List the APIs for semaphore.	4	L1
9	Write the syntax of socket() function.	5	L1
10	List the advantages of socket interface.	5	L1
	Part-B		
Answer all the questions.	(5X10M=50Marks)		
11	How to create, copying, moving deleting of a file in Linux with examples. [10]	1	L2
	OR		
12	a) Explain the responsibilities of a shell. [5] b) Explain about Shell variables and Shell commands [5]	1	L2
13	Explain the following system calls [3+3+2+2] a) stat() b) fcntl() c) link() d) lseek()	2	L2
	OR		
14	Explain in detail about the working and syntax of directory handling system calls. [10]	2	L2
15	a) Differentiate wait() and waitpid() with examples. [5] b) Differentiate between fork and vfork() [5]	3	L4
	OR		
16	Explain the following with example [3+3+4] a) process creation b) process termination c) process identification	3	L2
17	Define FIFO with an example. List the advantages and drawbacks of FIFO.[10]	4	L2
	OR		

18	Define message queue. Explain about APIs for message queues. [10]	4	L2
19	Explain the following function [3+3+4] a) socket() b) bind() c) connect()	5	L2
	OR		
20	Explain about APIs for Shared Memory. [10]	5	L2