Regulation R18 *Subject code: 2P5FE*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B. Tech V Semester Supplementary Examinations, June/July 2023

LINUX PROGRAMMING

(INFORMATION TECHNOLOGY)

Maximum Marks: 70 Date:06.07.2023 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)

1 List any two disk utility commands?
2 Define pipe.
3 List the types of a files.
4 Define symbolic link.
5 Define getenv() function.
6 List the features of reliable signals.
7 Define FIFO with an example.
8 Define semaphore.
9 Define Socket.
10 List the API's for shared memory.

Part-B

Answer all the questions. (5X10M=50Marks)

11 Explain the layered architecture and kernel role in Linux with neat diagram? [10]

OR

12 Define redirection. How to redirect standard input, output and error. [10]
13 Explain in detail about the various types of files? [10]

OR

14 Discuss the need and importance of lseek() system call with its relative merits and drawbacks. [10]
15 Discuss about orphan process and zombie process with example. [10]

OR

16 Differentiate wait() and waitpid() with examples. [10]
17 Explain about inter process communication. [10]

OR

18 Define semaphore. Write about semaphore system calls. [10]
19 Explain socket system call for Connection oriented protocol. [10]

OR

20 Explain about Socket Address Structure. [10]