



Regulation R18
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code: 2P5FE

B.Tech V Semester Supplementary Examinations, January 2023
LINUX PROGRAMMING
(INFORMATION TECHNOLOGY)

Maximum Marks: 70

22-01-23

Duration: 3 hours

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

Part-A

Answer all the following questions

(10x2M=20 Marks)

- 1 Define WC command with syntax.
- 2 Define shell scripting?
- 3 List the attributes of a file?
- 4 Define chdir() function with example.
- 5 Define process.
- 6 Define sleep function.
- 7 Define IPC?
- 8 Define semaphore.
- 9 Write the syntax of accept() function
- 10 Write the syntax of shmdat() function.

Part-B

Answer all the questions.

(5X10M=50Marks)

- 11 How to create, copying, moving deleting and soft link of a file in Linux with examples. [10]
OR
- 12 Explain the responsibilities of a shell. [10]
- 13 Explain in detail about Linux file system structure? [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 Explain about signal() function. Differentiate the reliable and unreliable signals. [10]
- 17 What are message queues. Explain with an example? [10]
OR
- 18 Define message queue and explain about APIs for messages [10]
- 19 Explain the following function [3+3+4]
a) socket() b) bind() c) connect()
OR
- 20 Write a short notes on APIs for Shared Memory. [10]

