



Regulation: R17

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code: IP7FB

B.Tech IV Year I Semester Supplementary Examinations, July 2022

LINUX PROGRAMMING

(INFORMATION TECHNOLOGY)

Maximum Marks: 70

Duration: 3 hours

Part-A

Answer all the following questions

(10x2M=20 Marks)

- 1 Define shell scripting.
- 2 Define WC command with syntax.
- 3 List the types of a file.
- 4 Define symbolic link.
- 5 Write the syntax of alarm function.
- 6 List the features of reliable signals.
- 7 Define semaphore.
- 8 List the APIs for semaphore.
- 9 List the API's for shared memory.
- 10 Write the syntax of shmdat() function.

Part-B

Answer all the questions.

(5X10M=50Marks)

- 11 Explain about File Permissions with an example
- 12 a) Write a shell script to find factorial of a given integers.
b) How to debug Shell scripts in Linux.
- 13 Explain in detail about the working and syntax of directory handling system calls.
- 14 Explain the following system calls
a) stat() b) fcntl() c) link() d) lseek()
- 15 Explain the following system call with syntax
a) alarm b) pause c) abort
- 16 Discuss about orphan process and zombie process with example. [10]
- 17 Define message queue. Explain about APIs for messages. [10]
- 18 Explain the following System Calls
a) semget b) semop c) semctl
- 19 Explain the following function
a) socket() b) bind() c) connect()
- 20 Write a short notes on APIs for Shared Memory. [10]