



R18 Regulation

Subject code:2P5FE

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, December 2024

LINUX PROGRAMMING (IT)

Maximum Marks: 70

Date:08.01.2025

Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20) Marks)		CO	Bloom Tx
1	Define pipe.	1	L1
2	List any two networking commands.	1	L1
3	Define system call.	2	L1
4	Define get cwd () function with example.	2	L1
5	Define sleep function.	3	L1
6	Define signal.	3	L1
7	What are the various types of pipes?	4	L1
8	Define semaphore.	4	L1
9	Write the syntax of accept() function	5	L1
10	Write the syntax of shmdat() function.	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Explain about File Permissions with an example. [10M]	1	L2
OR			
12	A) Differentiate windows OS and Linux OS. [5M] B) How to debug Shell scripts in Linux. [5M]	1	L2
13	Explain about the various types of files in detail. [10M]	2	L2
OR			
14	Explain in detail about the working and syntax of directory handling system calls. [10M]	2	L2
15	Discuss about orphan process and zombie process with example. [10M]	3	L2
OR			
16	Explain about signal () function. Differentiate the reliable and unreliable signals. [10M]	3	L2

17	Define FIFO with an example. List the advantages and drawbacks of FIFO. [10M]	4	L2
	OR		
18	Define message queue. Explain about APIs for messages. [10M]	4	L2
19	Explain socket system call for Connection oriented protocol. [10M]	5	L2
	OR		
20	Explain about Socket Address Structure. [10M]	5	L2