



**B.Tech III Semester Supplementary Examinations, July 2024**

**LINUX PROGRAMMING  
(IT)**

**Maximum Marks: 70**

Date: 25.07.2024 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 about kernel.		1	L1
2	Define about linux.		1	L1
3	List the types of a file.		2	L1
4	Define about link.		2	L1
5	Define about unlink.		3	L1
6	List the features of reliable signals.		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 accept() function		5	L1
10	Write the syntax of shmdat() function.		5	L1

**Part-B**

Answer All the following questions.		(5X10M=50Marks)		
11	Differentiate windows OS and Linux OS. [10M]		1	L2
	OR			
12	Define about Security by file permissions. [10M]		1	L2
13	Explain in detail about the various types of files. [10M]		2	L2
	OR			
14	Discuss the need and importance of lseek() system call with its relative merits and drawbacks. [10M]		2	L2
15	Explain about kernel support for process. [10M]		3	L2
	OR			
16	Differences between threads and processes. [10M]		3	L2
17	Explain about inter process communication. [10M]		4	L2
	OR			
18	Define semaphore. Write about semaphore system calls.? [10M]		4	L2
19	Explain the kernel support for shared memory. [10M]		5	L2
	OR			
20	Write a short notes on APIs for Shared Memory. [10M]		5	L2

