RegulationR18 *Subject code: 2P5EA & 2P5FA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, February 2024

OPERATING SYSTEM

(Common to CSE & IT)

Maximum Marks: 70 Date:15.02.2024 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)	CO	Bloom Tx
1	Justify multitasking is it improve the performance.	1	L3
2	Explain graceful degradation.	1	L2
3	Explain Interprocess communication.	2	L2
4	Identify the role of dispatcher.	2	L3
5	Explain resource allocation graph.	3	L2
6	What do you mean by Best fit?	3	L1
7	Define Thrashing.	4	L1
8	Explain file system mounting	4	L2
9	What do you mean by head crash?	5	L1
10	Define software and hardware object.	5	L1

Part-B

	Answer all the questions. **(5X10M=50Marks)**		
11	Identify the different types of system calls provided by an operating system with respect to memory management. [10]	1	L3
	OR		
12	Identify how operating system structures working. [10]	1	L3
13	Briefly Explain how Interprocess communication models are essential. [10]	2	L3
	OR		
14	Is it semaphore helps to avoid dedlock. Give an example. [10]	2	L3
15	Identify how the bankers algorithm avoid deadlock with an Example. [10]	3	L3
	OR		
16	a) List out the deadlock characterization. [5] b) Distinguish the different methods for handling deadlocks [5]	3	L4 L4
17	Apply FIFO and LRU page replacement algorithms. Give an Example. [10]	4	L3
	OR		
18	a) Make use of file attributes and operations in file management system. [5] b) List out sequential and direct access methods. [5]	4	L3 L4

19	Implementation of file system using free space management. [10]	5	L4
	OR		
20	Implementation of access matrix. [10]	5	L4