PRN:		Course Code:	UCS302

Second Year **B. Tech** End Semester Examination Summer 2024

Operating System

Day and Date: 24 MAY 2024, Friday Max Marks: **100**

Time: 10:30 to 1:30 pm Duration: **03** hrs

Instructions: All questions are compulsory.

Q.1		**Attempt the following**	Marks	Bloom's Level	CO
	a)	Explain concept of operating system in detail.	08	L1	CO1
	b)	Compare serial programming and multiprogramming	08	L2	CO2
		OR			
	b)	Describe any four operating system services	08	L2	CO1
Q.2		**Attempt the following**			
	a)	Illustrate the process state transition concept with neat diagram in detail.	08	L2	CO1
	b)	State and explain different scheduling criteria in detail.	08	L1	CO3
		OR			
	b)	Explain context switching in detail.	08	L2	CO2
Q.3		**Attempt any two from the following**			
	a)	Discuss on FCFS scheduling algorithm in detail with example.	08	L2	CO2
	b)	Explain the round robin scheduling algorithm in detail with example	08	L2	CO3
	c)	Explain round SJF scheduling in detail.	08	L3	CO3
Q.4		**Attempt any two from the following**			
	a)	Demonstrate the concept of Critical Section problem in detail.	08	L2	CO4
	b)	Explain process synchronization in detail.	08	L3	CO2
	c)	Illustrate the implementation of semaphore in detail.	08	L3	CO3
Q.5		**Attempt any Two of the following**			
	a)	Discuss about deadlock concept in operating system in detail.	09	L2	CO4
	b)	Explain use resource allocation graph in deadlock detection	09	L4	CO2
	c)	Explain deadlock prevention in detail.	09	L4	CO4
Q.6		**Attempt any Two of the following**			
	a)	Summarize single partition memory allocation technique in detail	09	L4	CO4
	b)	Draw and explain steps in handling a page fault.	09	L3	CO2
	c)	Explain segmentation in detail.	09	L4	CO4

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