PRN:		Course Code :	AMT1303

Second Year **B. Tech AIML** End Semester Examination Summer 2023

Operating Systems

Day and Date: Friday, 16/06/2023 Max Marks: **100**

Time : 2.00 to 5.00 PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Give the services of operating system in detail.	08	L1	CO1
	b)	Describe time sharing operating system in detail.	08	L1	CO1
		OR			
	b)	Explain multiprogramming operating system in detail.	08	L2	CO1
Q.2		**Attempt the following**			
	a)	Explain process scheduling concept of operating system in detail.	08	L1	CO2
	b)	Write a short note on PCB.	08	L2	CO2
		OR			
	b)	Explain round robin process scheduling in detail.	08	L1	CO2
Q.3		**Attempt any two from the following**			
	a)	Explain process synchronization in detail.	08	L1	CO2
	b)	Explain Critical Section problem in detail.	08	L1	CO3
	c)	Discuss spin lock and its solution in detail.	08	L2	CO3
Q.4		**Attempt any two from the following**			
	a)	Explain use of resource allocation graph in deadlock detection.	08	L1	CO3
	b)	Discuss about deadlock concept in operating system in detail.	08	L2	CO3
	c)	Explain different conditions for deadlock in detail.	08	L1	CO3
Q.5		**Attempt any Two of the following**			
	a)	Discuss about demand paging in detail.	09	L1	CO3
	b)	Draw and explain steps in handling a page fault.	09	L3	CO3
	c)	Explain memory fragmentation in detail.	09	L2	CO4
Q.6		**Attempt any Two of the following**			
	a)	Explain need and goals of protection in detail.	09	L1	CO4
	b)	Discuss the following i)Password-based authentication ii) Biometric authentication	09	L2	CO4
	c)	Discuss about different types of computer viruses.	09	L2	CO4

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