Code No: **R20A0504**

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
II B.Tech II Semester Supplementary Examinations, June 2024
Operating Systems
(B.Tech-AIML)

Roll No

Time: 3 hours   **Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

***

			SECTION-I	**BCLL**	**CO(s)**	**Marks**
1	*A*		Exemplify the simple batch operating systems using neat sketch.	L2	CO-I	[7M]
	B		Explain Real time operating system in detail	L4	CO-I	[7M]
			OR			
2	*A*		Paraphrase on Distributed operating systems with help of diagram	L2	CO-I	[7M]
	B		Describe the services provided by the Operating Systems	L1	CO-I	[7M]
			SECTION-II			
3	*A*		Describe Process states and draw the diagram for it	L1	CO-II	[7M]
	B		Write a short notes on i)Scheduling queues ii) Schedulers	L2	CO-II	[7M]
			OR			
4	*A*		Differentiate Processes and Threads	L2	CO-II	[7M]
	B		Explain FCFS cpu scheduling algorithm with an example	L4	CO-II	[7M]
			SECTION-III			
5	*A*		Exemplify the Deadlock prevention methods	L2	CO-III	[7M]
	B		Explain the Bankers algorithm with an example	L4	CO-III	[7M]
			OR			
6	*A*		Exemplify Dining philosopher problem	L2	CO-III	[7M]
	B		Write Deadlock detection algorithm	L1	CO-III	[7M]
			SECTION-IV			
7	*A*		Discuss the Contiguous Memory Allocation in detail	L4	CO-IV	[7M]
	B		Illustrate Segmentation concept with an example	L2	CO-IV	[7M]
			OR			
8	*A*		Explain Paging model with an example	L4	CO-IV	[7M]
	B		Write a short notes on Thrashing	L1	CO-IV	[7M]
			SECTION-V			
9	*A*		Exemplify the File system structure with example diagram	L2	CO-V	[7M]
	B		Discuss briefly different types of Access methods	L1	CO-V	[7M]
			OR			
10	*A*		Describe the allocation methods of storing files on disks	L1	CO-V	[7M]
	B		Paraphrase on Free space management	L2	CO-V	[7M]
			***			