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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
II B.Tech I Semester Supplementary Examinations, June/July 2024
Computer Organization and Operating Systems
(B.Tech-AIDS)

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.

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SECTION-I

1	A	Discuss various computer types with their applications in real world environment.	**[7M]**
	B	Discuss the basic operational concept, in detail.	**[7M]**

OR

2	A	Explain the register transfer bus.	**[7M]**
	B	Explain instruction cycle with a neat sketch.	**[7M]**

SECTION-II

3	A	Write down the differences between auxiliary memory and associative memory.	**[7M]**
	B	Define the virtual memory. What are the advantages?	**[7M]**

OR

4	A	Explain the structure of page table.	**[7M]**
	B	Define operating system. Discuss the various types of operating systems.	**[7M]**

SECTION-III

5	A	What is linux. Discuss the utilities of linux.	**[7M]**
	B	Discuss the operations on processes.	**[7M]**

OR

6	A	What are the various scheduling criteria for CPU scheduling.	**[7M]**
	B	Explain round robin scheduling algorithm with suitable example.	**[7M]**

SECTION-IV

7	A	Discuss the methods for handling a deadlock.	**[7M]**
	B	Discuss the various file operations, in detail.	**[7M]**

OR

8	A	What is the purpose of using disk attachment in disk management.	**[7M]**
	B	Explain FCFS disk scheduling algorithm, with example.	**[7M]**

SECTION-V

9	A	Discuss the design of control unit.	**[7M]**
	B	Explain the STACK organization model.	**[7M]**

OR

10	A	Explain various addressing modes.	**[7M]**
	B	Explain the architecture of CISC.	**[7M]**

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