

Code No: R15A0569**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****III B.Tech I Semester Supplementary Examinations, April 2023****Computer Organization & Operating Systems****(ECE)**

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Time: 3 hours**Max. Marks: 75****Note:** This question paper contains two parts A and B

Part A is compulsory which carries 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

- 1). a Describe about register transfer bus? [2M]
- b Define the stack operation? [3M]
- c Define control word? [2M]
- d What is meant by dynamic microprogramming? [3M]
- e Discuss the functioning of USB? [2M]
- f What is the function of standard serial communication? [3M]
- g Define Paging? [2M]
- h What is meant by deadlock? [3M]
- i What is meant by directory and why we need it? [2M]
- j Why we need free space management? [3M]

PART-B (50 MARKS)**SECTION-I**

- 2 Define and describe fixed point and floating point with example. [10M]

OR

- 3 Describe about logic micro operations in detail? [10M]

SECTION-II

- 4 Describe the RAID technology? [10M]

OR

- 5 Distinguish in between hardwired control and micro programmed control unit. [10M]

SECTION-III

- 6 Describe the operation of DMA controller with block diagram. [10M]

OR

- 7 Explain the interface of I/O bus and interface module with suitable diagram [10M]

SECTION-IV

- 8 Distinguish the difference between internal and external fragmentation. [10M]

OR

- 9 What is meant by demand paging? And explain in detail. [10M]

SECTION-V

- 10 Detail the schematic view of a virtual file system and explain in detail. [10M]

OR

- 11 Deeply elaborate different allocation methods. And explain. [10M]
