

Q.P. Code: 20MC9105

Reg. No: 

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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)  
**MCA I Year I Semester Supplementary Examinations November 2021**  
**OPERATING SYSTEMS**

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

1 What are the objectives and functions of operating systems? L1 12M

OR

2 What are the system programs and explain in detail? L1 12M

**UNIT-II**

3 a Discuss FCFS & SJF CPU scheduling algorithms in detail. L6 6M

b Explain about Priority, round-robin CPU scheduling algorithms. L6 6M

OR

4 Explain multiple processor scheduling, real-time scheduling and thread scheduling. L2 12M

**UNIT-III**

5 Write a brief description on Logical & Physical Address Space and Contiguous Allocation. L6 12M

OR

6 Write a short note on Page Replacement Algorithms. L6 12M

**UNIT-IV**

7 Discuss about mass storage structure and disk structure in detail. L6 12M

OR

8 Explain file implementation methods. L2 12M

**UNIT-V**

9 What is deadlock? Explain Methods for Handling Deadlocks. L1 12M

OR

10 Write about domain protection and Principles of Protection. L6 12M

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