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

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 Explain different services provided by operating systems. L2 12M
- OR**
- 2 a Write a short note on Computer System Architecture. L6 6M
b Write about OS structure. L6 6M

UNIT-II

- 3 Define process state. Explain different process state with neat diagram. L5 12M
- OR**
- 4 Write about the Critical Section Problem and Peterson's solution. L6 12M

UNIT-III

- 5 a Write about Contiguous Allocation. L6 6M
b Write about Swapping. L6 6M
- OR**
- 6 Explain any one of the page replacement algorithm with suitable illustration. L2 12M

UNIT-IV

- 7 Discuss about various disk scheduling in detail. L6 12M
- OR**
- 8 Define file. Explain the different file accessing methods. L5 12M

UNIT-V

- 9 What are the necessary conditions of a deadlock? Explain in detail. L1 12M
- OR**
- 10 Discuss the goals of protection and principles of protection in detail. L6 12M

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