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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)**B.Tech II Year II Semester Regular Examinations July 2021****PRINCIPLES OF OPERATING SYSTEMS**

(Computer Science &amp; Information Technology)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

1 Define Operating System and List Operating System Structure in detail? L1 12M

**OR**

2 Compare between Operating System Protection and Operating System Security? L5 12M

**UNIT-II**

3 What is multithreading? Explain the thread libraries in detail. L1 12M

**OR**

4 Explain in detail Real-Time CPU Scheduling? L2 12M

**UNIT-III**

5 Define Monitors. List Classical problems of synchronization? L1 12M

**OR**

6 Explain in detail Deadlock Avoidance and Detection? L2 12M

**UNIT-IV**

7 Examine in detail about Segmentation? L4 12M

**OR**

8 Discuss in detail about paging in operating system? L6 12M

**UNIT-V**

9 Define File Concept. List about File System Interface in detail? L1 12M

**OR**

10 Examine in detail about Directory Implementation? L4 12M

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