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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech II Year II Semester Supplementary Examinations October-2020

OPERATING SYSTEMS

(Computer Science & Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a Explain difference between Uni-programming and Multi Programming. **6M**
b Explain Distributed Systems. **6M**

OR

- 2 a Define Operating System and explain the various types of Operating Systems. **6M**
b Write about Memory management. **6M**

UNIT-II

- 3 a Explain CPU Scheduling Algorithms with examples. **8M**
b Define Process? Explain process State diagram? **4M**

OR

- 4 a Define the following: **3M**
i. Program **4M**
ii. Process Control Block
b Write about Single & Multithreaded Process? **5M**

UNIT-III

- 5 a What are the methods for handling deadlock? **6M**
b Explain about Deadlock Avoidance? **6M**

OR

- 6 a Discuss about Monitor. **5M**
b What is Semaphore? Explain producer consumer problem using semaphore? **7M**

UNIT-IV

- 7 a Explain about file access methods. **6M**
b What is Segmentation? Explain with Example. **6M**

OR

- 8 a Write short notes on **3M**
i. Demand paging **3M**
ii. File sharing
b What is swapping with respect to memory management? explain **6M**

UNIT-V

- 9 a Define Protection Domain with Example. **6M**
b Explain about Digital Signature. **6M**

OR

- 10 a Write short notes One-Way Functions. **6M**
b Explain about Access Control List with Example. **6M**

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