R16

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Supplementary Examinations March-2021
FUNDAMENTALS OF OPERATING SYSTEMS
(Computer Science & Information Technology)

Time: 3 hours
Max. Marks: 60

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

UNIT-I

1 Explain Structure Of Operating System.   **12M**

OR

2 a Explain Inter Process Communication (IPC).   **6M**
   b Justify Message Passing And Shared Memory.   **6M**

UNIT-II

3 Briefly explain multithreading models.   **12M**

OR

4 a Briefly explain multithreading models.   **6M**
   b Critical problem solution.   **6M**

UNIT-III

5 a Give example for FIFO page replacement.   **6M**
   b Optimal Page replacement example.   **6M**

OR

6 a Write about deadlock avoidance.   **6M**
   b Write Bankers algorithm.   **6M**

UNIT-IV

7 a Write short notes on Disk Structure.   **6M**
   b Write short notes on Disk Attachment.   **6M**

OR

8 Explain briefly about Directory and disk structure.   **12M**

UNIT-V

9 a Explain I/O hardware.   **6M**
   b Explain application I/O interface.   **6M**

OR

10 Explain cryptography as a security tool.   **12M**

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