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

B.Tech II Year II Semester Supplementary Examinations July-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 Briefly Write About Types Of System Calls? 12M

OR

2 a Justify Message Passing And Shared Memory 6M

b Explain Inter Process Communication (IPC)? 6M

UNIT-II

3 Write short notes on monitors? 12M

OR

4 a Explain reader writer problem. 6M

b Explain (i) Dining philosopher problem (ii) Bounded buffer problem. 6M

UNIT-III

5 a Give example for FIFO page replacement. 6M

b Optimal Page replacement example. 6M

OR

6 Write short notes on 12M
i) Mutual Exclusion ii) Hold and Wait iii) No Preemption iv) circular wait

UNIT-IV

7 Give Example for various disk scheduling. 12M

OR

8 a What is File System Structure? 6M

b What is File System Implementation 6M

UNIT-V

9 a Explain kernel I/O subsystem. 6M

b Explain transforming I/O subsystem. 6M

OR

10 Explain user authentication? 12M

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