R18

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Supplementary Examinations July-2022
OPERATING SYSTEMS
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 60

PART-A
(Answer all the Questions 5 x 2 = 10 Marks)

1	a	What is an Operating system.	L1	2M
	b	Define Time slice.	L1	2M
	c	Define deadlock.	L1	2M
	d	What is Thrashing?	L1	2M
	e	What are the various operations performed in a File?	L1	2M

PART-B
(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

2	a	Explain Operating System Structures.	L2	5M
	b	Explain System Programs.	L2	5M

OR

3	Explain briefly different types of System calls.	L5	10M

UNIT-II

4	Explain CPU Scheduling Algorithms with examples.	L5	10M

OR

5	a	What is synchronization? What are the different synchronization mechanisms? Explain in detail.	L2	5M
	b	What is a process? Explain Process Control Block.	L1	5M

UNIT-III

6	Define process synchronization and explain Peterson solution algorithms.	L2	10M

OR

7	a	What are the methods for handling deadlock?	L4	6M
	b	Explain about Deadlock Avoidance.	L5	4M

UNIT-IV

8	a	What is Segmentation? Explain with Example.	L1	5M
	b	Explain about Paging.	L2	5M

OR

9	Explain the different Disk scheduling algorithms with their comparisons.	L2	10M

UNIT-V

10	a	Discuss about File type.	L6	5M
	b	Explain about File operation.	L5	5M

OR

11	Explain file allocation methods in detail.	L2	10M

END