Reg. No: ☐☐☐☐☐☐☐☐☐☐

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Supplementary Examinations July-2021
OPERATING SYSTEMS
(Computer Science and Engineering)

Time: 3 hours   Max. Marks: 60

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

UNIT-I

1	a	Explain Operating System Structures?	7M
	b	Explain difference between Uni programming and Multi Programming?	5M

OR

2	Explain about Computer System architecture?	12M

UNIT-II

3	Explain CPU Scheduling Algorithms with examples?	12M

OR

4	a	Define Process? Explain process State diagram?	6M
	b	Explain about process schedulers?	6M

UNIT-III

5	Explain Dead lock detection (Banker's Algorithm) with Example?	12M

OR

6	What is Semaphore? Explain producer consumer problem using semaphore?	12M

UNIT-IV

7	a	Explain Dynamic memory partition allocation with Example.	6M
	b	What is contiguous memory allocation? Explain it.	6M

OR

8	a	What is Segmentation? Explain with Example.	6M
	b	What is swapping with respect to memory management? Explain.	6M

UNIT-V

9	a	Explain about protection Matrix with Example.	6M
	b	Discuss about cryptography process.	6M

OR

10	Explain about various Authentication Techniques.	12M

*** END ***