R18

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA I Year II Semester Regular & Supplementary Examinations May 2019
OPERATING SYSTEMS

Time: 3 hours   Max. Marks: 60

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

UNIT-I

1	a	Write about simple batch, multi-programmed, time-shared systems.	6M
	b	What are the objectives and functions of operating systems?	6M

OR

2	a	Explain different services provided by operating systems.	6M
	b	Write about system programs.	6M

UNIT-II

3	Write in detain about process scheduling.	12M

OR

4	a	Describe priority scheduling, Round-robin scheduling algorithms.	6M
	b	Explain Semaphores.	6M

UNIT-III

5	a	Explain the structure of the page table.	6M
	b	Write about Segmentation.	6M

OR

6	a	Explalin Thrashing.	6M
	b	Describe demand paging.	6M

UNIT-IV

7	a	Explain any two disk allocation methods.	6M
	b	What are the different ways of disk free-space management, explain any three.	6M

OR

8	Discuss about various disk scheduling in detail.	12M

UNIT-V

9	a	Explain Banker's algorithm for deadlock avoidance.	8M
	b	Give the example for Banker's algorithm.	4M

OR

10	a	How to implement Access Matrix? Explain.	6M
	b	Explain System and Network Threats.	6M

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