Q.P. Code: 16IT601

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

## B.Tech II Year II Semester Supplementary Examinations February-2022 FUNDAMENTALS OF OPERATING SYSTEMS

	FUNDAMENTALS OF OI ERATING SISTEMS	
<b></b>	(Computer Science & Information Technology)	
Tim	ne: 3 hours	Max. Marks: 60
	(Answer all Five Units $5 \times 12 = 60$ Marks)	
1	UNIT-I	1284
1	Explain Operating System Structure.	12M
	OR	
2	a Write Short Notes On System Call?	6M
	<b>b</b> Write Briefly On Types Of System Call.	6M
	UNIT-II	
3	a Write about Critical section problem.	6M
	<b>b</b> Write about Critical problem solution.	6M
	OR	
4	a What is semaphore?	6M
	<b>b</b> Write about Implementation of semaphore.	6M
	UNIT-III	
5	What is contiguous memory allocation?	12M
	OR	
6	a Write about deadlock avoidance.	3M
	<b>b</b> Bankers' algorithm.	7M
	UNIT-IV	
7	a Write short notes on Disk Structure.	6 <b>M</b>
	<b>b</b> Write short notes on Disk Attachment.	6M
	OR	
8	What are the various kinds of allocation methods and explain.	12M
	UNIT-V	1211
9	a Explain I/O hardware.	6M
	<b>b</b> Explain application I/O interface.	6M
	OR	
10		103.4
10	Brief about firewalling to protect systems and networks?	12M

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