Paper / Subject Code: 41023 / Operating System

9/12/2024 IT SEM-IV C SCHEME OS QP CODE: 10065286

1 ime:	3nours	iax. Marks: 80
N.B.: 1	1) Question No.1 is compulsory.	
	2) Attempt any THREE questions out of remaining FIVE questions.	# 65
	3) Figures to the right indicates full marks.	5 78 v
4	4) Assume suitable data if necessary.	Ox,
01	Anguar and FOUR	30
Q1 a	Answer any FOUR Explain process state model.	20
a b	Describe the implementation of file allocation techniques?	16
c	What is difference between physical address and virtual address?	
d	Explain memory fragmentation.	
e	Explain about IPC.	
Q.2		
a	What is an Operating System? Explain structure of Operating System.	10
b	What is thread in OS? Compare user level and kernel level threads.	10
Q.3		
a	What is process scheduling? List process scheduling algorithms and explanation and explanation and explanation are scheduling algorithm with example.	ain 10
b E	What is a deadlock? Explain necessary conditions for deadlock.	10
Q.4		
a	What is a process? Explain Process control block in detail.	10
b	What is redundant array storage? Explain RAID levels.	10
Q.5		
a	Explain objectives and characteristics of modern operating system. Explain Network OS.	in 10
b	What is page replacement? Explain any one page replacement algorithms example.	with 10
260	W. C. L. A. FOUR	20
Q.6	Write short notes on any FOUR	20
a b	Segmentation Memory Allocation	
c A	Deadlock avoidance	
d	Network OS	
e	Memory fragmentation	
f	Cache memory	
· ·	Same and the same	