Paper / Subject Code: 41023 / Operating System

1T01234 - S.E.(Information Technology Engineering)(SEM-IV)(Choice Base Credit Grading System)(R-2020-21)(C Scheme) / 41023 - Operating System

QP CODE: 10042227 DATE: 14/12/2023.

1 1111	3 Hours	
N.B.:	: 1) Question No.1 is compulsory.	
	2) Attempt any THREE questions out of remaining FIVE questions.	37
	3) Figures to the right indicates full marks.	
	4) Assume suitable data if necessary .	. 3
Q1	Answer any FOUR	20
a	Explain memory fragmentation.	
b	Compare process scheduling and process switching.	
c	Describe the implementation of file allocation techniques?	
d	Explain process state model.	
e	Explain about IPC.	
Q.2		
a	Explain RAID with different levels.	10
b	What is a process? Explain Process control block in detail.	10
Q.3		90
a	What are different types of process scheduling algorithms? Explain anyone	10
S _L	scheduling algorithm with example.	10
b	What is a critical region? Explain necessary conditions for deadlock.	10
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Q.4	Give detail comparison of user level and kernel level threads.	10
b	What is an Operating System? Explain structure of Operating System.	10
9	What is an operating system.	10
Q.5		
a	Explain objectives and characteristics of modern operating system. Explain	10
	Network OS.	
b	List page replacement algorithms? Explain anyone page replacement algorithms with	10
90	example.	
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Q.6	Write short notes on any FOUR	20
a	Deadlock recovery	
b	Real Time OS	
c	Semaphores Virtual Momory	
d	Virtual Memory Android	
e f	File Allocation Methods	
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