



[M19CST1106]

**I M.TECH I SEMESTER(R19) REGULAR EXAMINATIONS  
ADVANCED OPERATING SYSTEMS  
(COMPUTER SCIENCE AND ENGINEERING)  
MODEL QUESTION PAPER**

**TIME: 3 Hrs**

**Max.Marks: 75M**

**Answer ONE QUESTION from EACH UNIT  
All questions carry equal marks**

			CO	KL	M
		<b>UNIT-I</b>			
1	a	Explain in detail abt multiprocessor operating system architectures	1	1	8
	b	Define OS. Explain in detail abt structure of OS	1	1	7
		<b>OR</b>			
2	a	Briefly discuss abt design issues	1	1	8
	b	Explain abt different multiprocessor operating systems	1	1	7
		<b>OR</b>			
		<b>UNIT-II</b>			
3	a	What is mutual exclusion? explain in detail abt mutual exclusion in distributed operating systems	1	1	7
	b	Discuss abt different election algorithms	1	2	8
		<b>OR</b>			
4	a	Discuss abt communication models and clock synchronization in distributed operating systems	1	1	8
	b	Explain in detail abt distributed deadlock detection	1	2	7
		<b>UNIT-III</b>			
5	a	What is shared memory? Explain distributed shared memory	2	1	7
	b	Explain file systems in distributed environment	2	1	8
		<b>OR</b>			
6	a	Discuss abt file placement and caching	2	1	7
	b	Explain multimedia file systems in distributed environment	2	1	8
		<b>UNIT-IV</b>			
7	a	What is the requirement of database operating system? Explain	2	1	8
	b	Write abt synchronization primitives	2	1	7
		<b>OR</b>			
8	a	Explain in detail abt transaction process mode	2	1	7
	b	Write abt concurrency control algorithms	2	2	8
		<b>UNIT-V</b>			





9	a	Explain abt ARM and Intel architectures	3	1	8
	b	Discuss abt kernel structure and native level programming	3	1	7
OR					
10	a	Discuss abt mobile operating systems architectures	3	1	8
	b	Write abt runtime issues in mobile operating systems	3	1	7

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