INSTITUTE OF AERONAUTICAL ENGINEERING

(AUTONOMOUS)

Code No: BCS004

Time: 3 hours

MODEL QUESTION PAPER - II

M. Tech II Semester Regular Examinations, July 2018

DISTRIBUTED OPERATING SYSTEM

(Computer Science and Engineering)

Max. Marks: 70

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the question must be answered in one place only

	UNIT-I				
1.	(a)	Explain the implementation of RPC in a distributed system.	[7M]		
	(b)	Explain different communication protocol used for RPCs.	[7M]		
2.	(a)	What are the issues in client server binding? Explain how these issues handled?	[8M]		
	(b)	Why are distributed Operating systems gaining popularity.	[6M]		
UNIT-II					
3.	(a)	What is clock synchronization? Explain various clock synchronization algorithms	[8M]		
	(b)	Explain how Mutual Exclusion is implemented in distributed systems.	[6M]		
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4.	(a)	Explain the Deadlock modeling	[7M]		
	(b)	Implement the ring algorithm with an example.	[7M]		
UNIT-III					
5.	(a)	Explain Issues in designing a threads package.	[7M]		
	(b)	Explain the desirable features of a good global scheduling algorithm	[7M]		
6.	(a)	Explain various features of a good distributed file system.	[8M]		
	(b)	Discuss distributed file system design in detail	[6M]		
UNIT-IV					
7.	(a)	Explain consistency model used in a distributed shared memory.	[6M]		
	(b)	Suppose that two variables A and B are both located by accident on the same page of apage-based DSM system. However both of them are unshared variables. Is			
		false sharing possible? Explain.	[8M]		
0	(-)				
8.	(a)	Describe the role of distributed shared memory in distributed Operating Systems	[8M]		
	(b)	What is DSM? Explain the following shared memory multiprocessor in detail "Ring- Based Multiprocessors	[6M]		
UNIT-V					
9.	(a)	Explain Design goals of Mach in Detail.	[6M]		

	(b)	the memory management techniques in MACH Distributed operating systems	[8M]
10.	(a)	Describe chief design features Mach Operating Systems	
	()		[7M]
	(b)	Why does Mach provide only a single communication system call, mach_msg?	
		How is it used by clients and by clients by servers?	[7M]