## M.Sc. Part-II Semester-III (CBCS) Examination COMPUTER SCIENCE 3 MCS4 (1) DISTRIBUTED OPERATING SYSTEMS (GIS)

Tim	e : T	[Maximum Marks :	80
N.B	.:	(1) Assume suitable data wherever necessary.	
		(2) Illustrate your answer with the help of neat sketches.	
1.	(a)	Enlist the goals of distributed system.	6
	(b)	Explain remote procedure call and group communication.	7
		OR	
2.	(a)	State the advantages and disadvantages of distributed operating system.	6
	(b)	Describe client server model with suitable example.	7
3.	(a)	Explain Electron Algorithm with example.	7
	(b)	Describe distributed deadlock prevention and detection.	6
		OR	
4.	(a)	Explain clock synchronization and mutual exclusion in distributed system.	7
	(b)	Describe deadlocks in distributed system.	6
5.	(a)	Describe three state process model and explain valid transition between them.	7
	(b)	Describe fault tolerance in distributed system.	6
		OR	
6.	(a)	State the differences between process and threads in operating system.	6
	(b)	Explain a modified genetic algorithm for process scheduling in distributed system	. 7
7.	(a)	Describe the implementation of distributed file system.	6
	(b)	Explain page based distributed shared memory.	7
		OR	
8.	(a)	Explain trends in distributed file system.	7
	(b)	Explain object based distributed shaved memory model.	6
9.	(a)	Explain process management in AMOEBA.	8
	(b)	Explain the working of Bullet Server.	6
		OR	
10.	(a)	Discuss features of AMOFBA.	8
	(b)	Explain Boot server in detail.	6
11.	(a)	Describe communications in MACH.	8
	(b)	Explain DCE threads in detail.	6
		OR	
12.	(a)	Explain memory management in MACH.	8
	(b)	Explain time and directory services in MACH.	6

