Q.P. Code: 735400

		(3 Hours) [Total Marks:	80
N.	В.:	(1) Question No. 1 is Compulsory	
		 (1) Question No. I is Compulsory (2) Attempt any three questions out of remaining five questions. (3) Assume suitable data wherever required but justify the same. (4) Assumption made should be clearly stated. Explain Data Flow computers with example. What is the basic task of scheduler? Define i) Latency, ii) Initiation 	. 6
		(3) Assume suitable data wherever required but justify the same.	26
		(4) Assumption made should be clearly stated.	3
1.	(a)	Explain Data Flow computers with example.	5
	(b)	What is the basic task of scheduler? Define i) Latency, ii) Initiation	5
		What is the basic task of scheduler? Define i) Latency, ii) Initiation Rate, iii) Stage Utilization and iv) Forbidden Latency. What are the different models of middleware?	
	(c)	What are the different models of middleware?	5
	(d)	What are the issues in designing a distributed system?	5
2.	(a)	A machine is run on many applications and the instruction mix is	10
		collected. Loads/Store are 10%, Integer add/sub 15%, FP add/sub	
		50%, FP multiply divide 5% and others 5% and branches 15%. The	
		clock cycles consumed by these instructions are: Loads 2, Integer add/	
		sub 1, FP add/sub 5, FP multiply/dixide 20, others 1. Find which	
		component of the architecture requires enhancement first. After	
		incorporating the enhancement which makes clock cycles requirements	
		as 2. Find the overall Speedup 3	
	(b)		10
		Connected Architecture	
_			
3.	(a)	What is an interlock Explain the following three different classes of	10
		hazards:	
		(i) Control Hazards	
		(ii) Resource hazards	
	(l _n)	(iii) Operand hazards	
	(b)	Explain a pipelined multiplication using Digit Products of Fixed Point	10
		Multiplication Pipeline.	
1	(0)	Typlain the difference between D. C. C.	
4.	(a)	Explain the difference between Data Centric and Client Centric	10
	160	Consistency Models. Explain one model of each. Explain stream oriented communication with suitable example.	1.0
	1.1.1	LADIGH SU CALL OLICHICH COHUHUHCAHON WIIN SUHANIE EVAMNIE	

[TURN OVER

Q.P. Code: 735400

2

5. (a) (b)	Explain the distributed algorithms for Mutual Exclusion? What are the advantages and disadvantages of it over centralized algorithms? Write a Suzuki-Kasami's Broardcast Algorithm. Explain with example.	10 09. P.S.
6. (a) (b)	Explain the distributed algorithms for Mutual Exclusion? What are the advantages and disadvantages of it over centralized algorithms? Write a Suzuki-Kasami's Broardcast Algorithm. Explain with example. Compare Load sharing to task assignment and Load balancing strategies for scheduling processes in a distributed system. What are the desirable features of good distributed file systems? Explain file sharing semantic of it.	10
	SLAWS LASEL ARECHINGAL CAMPUS.	
AND TO SEA AND THE PROPERTY OF	AMISTANIS ARISHARIECT.	