Total No. of Printed Pages:1

SUBJECT CODE NO:- H-1829 FACULTY OF ENGINEERING AND TECHNOLOGY M.E. (CSE/SE)

El-1 Advanced Computer Architecture (REVISED)

[Time: Three Hours]		x.Marks: 80]	
N.B	Please check whether you have got the right question paper. 1. Solve any 2 questions from each section. 2. Assume suitable data if necessary.		
	Section A		
Q.1	 a) Explain buses and arbitration. i) Backplane bus specification ii) Addressing and timing protocols iii) Arbitration, transaction and interrupts b) Explain Flynn's classification. 	10	
Q.2	a) Explain Instruction pipeline design in detail.b) Explain in detail non- linear pipeline processor.	10 10	
Q.3	a) Explain super scalar and super – pipeline design.b) Explain the basic features of an array processor SIMD machine with neat diagram.	10 10	
	Section B		
Q.4	a) How operation can be performed on vectors? Explain.b) Explain the structure of Associative parallel processors.	10 10	
Q.5	a) Explain synchronization mechanism in multiprocessor and multicomputer systems.b) Differentiate between static versus dynamic interconnectivity.	10 10	
Q.6	Write short notes on i) Tightly coupled and loosely coupled multiprocessor system. ii) VLIW architecture	10 10	