GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III EXAMINATION - SUMMER 2016

Subject Code:130704			Date:27/05/2016	
Tiı	me: 1 truction 1. 2.	. Attempt all questions.	Total Marks: 70	
Q.1	(a) (b)	Explain the Common Bus System with its diagram. Explain Organization of Memory Stack with related operations.	. 07	
Q.2	(a) (b)	Explain BCD adder with block diagram. Explain the Instruction Cycle with flowchart. OR	07 07	
	(b)	List out the Characteristics of CISC and RISC.	07	
Q.3	(a) (b)	Explain different types of Shift Micro operations. Explain Design of Control Unit.	07 07	
Q.3	(a) (b)	OR Explain input-output instructions. Discuss following Instructions. i) SZA ii) LDA iii) ISZ iv) CIR v) CIL vi) SZE v	07 07 vii) BSA	
Q.4	(a) (b)	Explain the Instruction Pipelining with Example. Explain the Working of Second Pass Assembler with its flowch OR	07 nart. 07	
Q.4	(a) (b)	Explain First Pass Assembler. Explain the booth's Algorithm with the help of flowchart.	07 07	
Q.5	(a) (b)	What is addressing mode? List and Explain any two addressing Explain Address Sequencing with block diagram. OR	mode. 07	
Q.5	(a) (b)	What is Array Processor? Explain SIMD Array Processor. Explain Memory-Reference Instructions with flowchart.	07 07	
