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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (Old) EXAMINATION - WINTER 2019

Subject Code: 150701 Date: 29			9/11/2019 arks: 70	
Subject Name: Advance Processors Time: 10:30 AM TO 01:00 PM Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.				
Q.1	(a) (b)	Draw and explain 8086 internal block diagram. Explain different types of registers in 8086 microprocessor architecture.	07 07	
Q.2	(a) (b)	Explain the concept of Segmentation in 8086 with its advantages. Write 8086 program to find factorial of number. OR	07 07	
	(b)	Explain 8086 interrupt vector table.	07	
Q.3	(a)	Explain the following instructions: 1) LDS 2) PUSHF 3) DAA 4)CBW 5)SAR 6)RCR 7)RET	07	
	(b)	Explain the assembly directives: 1. ASSUME 2. ORG 3. EXTRN OR	07	
Q.3	(a)	Draw and explain pin diagram of 80286 microprocessor. Also explain 80286 protected-mode operations.	07	
	(b)	What is descriptor? Explain LDT and GDT in details.	07	
Q.4	(a) (b)	Explain the flag register format of 80286 with suitable figure. Explain the addressing modes of 80386 with examples. OR	07 07	
Q.4	(a) (b)	Explain the MMX and Hyper Threading. Discuss new features of 80486 compared to 80386. Also explain its functional units.	07 07	
Q.5	(a) (b)	Describe Reentrant and Recursive procedures. Draw and explain SUN SPARC processor.	07 07	
0.5	(a)	OR Differentiate the RISC architecture and CISC architecture.	07	
V	(4)	Differentiate the Misc monitorate and Cisc arenitorate.	· · · ·	

(b) What is macro? How can you define and call macros? Give an example of macro

with parameter.

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