

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE SEM-VI Examination-Nov/Dec-2011**

**Subject code: 160805**

**Date: 30/11/2011**

**Subject Name: Advanced Microprocessors**

**Time: 10.30 am -1.00 pm**

**Total marks: 70**

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain Architecture of 8086 microprocessor. **07**  
(b) Draw pin configuration of 8086 microprocessor and describe all pins. **07**
- Q.2** (a) How to Generate Physical Memory? Explain with example. **07**  
(b) Explain memory interfacing of 8086 microprocessor. **07**
- OR**
- (b) Explain various addressing modes of 8086 microprocessor. **07**
- Q.3** (a) Write short notes on memory segmentation. **07**  
(b) Explain Processor Control Instructions of 8086 microprocessor with example. **07**
- OR**
- Q.3** (a) Write a program to transfer block data from one memory location to another memory location. (with and without Overlapping). **07**  
(b) Write a program to find summation of first 10 odd numbers which are stored in memory **07**
- Q.4** (a) Explain following assembler directives **07**  
DQ,DB,DUP,PTR,ASSUME,DW,DD  
(b) Explain following instruction with example of 8086 **07**  
XLAT,LES,LAHF,CBW,CWD,TEST,SCAS
- OR**
- Q.4** (a) Explain Interrupt Response of 8086 microprocessor. **07**  
(b) Explain various types of Interrupt of 8086 microprocessor. **07**
- Q.5** (a) Explain Minimum and Maximum Modes of 8086 microprocessor. **07**  
(b) What is the Multiprocessing System?. Write Applications of Multiprocessing system. **07**
- OR**
- Q.5** (a) Compare Assembler Macros with Procedures. **07**  
(b) What is the Coprocessor?. Write an applications of coprocessor and explain in math processor in brief. **07**

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