

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**
