

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – WINTER • 2014****Subject Code: 160805****Date: 03-12-2014****Subject Name: Advance Microprocessor****Time: 02:30 pm - 05:00 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 Addressing modes of 8086 microprocessor. **07**
(b) Explain the internal architecture of 8086 microprocessor. **07**
- Q.2** (a) Briefly describe memory bank of 8086 Microprocessor. **07**
(b) Describe the following assembler directive **07**
(i) END (ii) EVEN (iii) EQU (iv) DB (v) ORG
OR
(b) Explain following instruction of 8086 with example. **07**
XLAT, LEA, SAHF, CBW, MOVSB, LOOP, SCASB
- 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 the average of five numbers which are stored in memory. **07**
OR
- Q.3** (a) Write a program to sort all the bytes from 0000 to 000Fh in ascending order. **07**
(b) Explain string instructions of 8086 microprocessor in detail. **07**
- Q.4** (a) Describe interrupt priority table also write details of type-0, type-1 & type-2 interrupt of 8086 Microprocessor. **07**
(b) Write a program to find the average of five numbers which are stored in memory. **07**
OR
- Q.4** (a) Explain Maximum Mode of 8086 microprocessor. **07**
(b) What is MACRO? How it differs from Procedure? Explain use of macro with one simple program. **07**
- Q.5** (a) What is the Multiprocessing System? Write Applications of Multiprocessing system. **07**
(b) Explain interfacing of I/O devices to the processor. **07**
OR
- Q.5** (a) What is the Coprocessor? Write an application of coprocessor and explain in math processor in brief. **07**
(b) What is MACRO? How it differs from Procedure? Explain use of macro with one simple program. **07**
