

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014

Subject Code: 160805**Date: 26-05-2014****Subject Name: Advance Microprocessor****Time: 10:30 am - 01:00 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) Draw and explain pin diagram of 8086 microprocessor. **07**
(b) Explain following assembler directives with example **07**
PROC, OFFSET, PTR, LABEL, EQU, ASSUME, END.
- Q.2** (a) Explain Addressing modes of 8086 microprocessor. **07**
(b) Draw and explain Internal Architecture of 8086 microprocessor. **07**
- OR**
- (b) Explain processor control instructions with examples. **07**
- Q.3** (a) Give difference between BIU and EU **07**
(b) Explain clock generator Intel 8284. **07**
- OR**
- Q.3** (a) Write short notes on segment registers. **07**
(b) Explain following instructions with example. **07**
LDS, PUSHF, INS, OUTS, SCAS, INTO, NEG
- Q.4** (a) Explain Flag Registers of 8086 microprocessor. **07**
(b) Explain 8086 Bus Activities During a Read machine cycle. **07**
- OR**
- Q.4** (a) What is an interrupt? Explain Various types of interrupt. **07**
(b) Write a program to transfer block data from one memory location (01234H-0123DH) to **07**
another location (04321H-0432AH).
- Q.5** (a) Write a program to store first 100 even numbers in memory location from 0000H- **07**
0063H, find the summation of stored numbers and store sum in memory location
00064H.
(b) Explain interfacing of I/O devices to the processor **07**
- OR**
- Q.5** (a) What is coprocessors? Give Applications of coprocessor with example. **07**
(b) Write short notes on multiprocessing system. **07**
