

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- SEMESTER-VI • EXAMINATION – SUMMER 2015****Subject code: 160805****Date: 12/05/2015****Subject Name: Advance Microprocessor****Time: 10.30am-01.00pm****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 typical configuration of 8086 Microprocessor Minimum mode. **07**  
(b) Write down difference between 8085 Microprocessor & 8086 Microprocessor. **07**
- Q.2** (a) Briefly describe memory bank of 8086 Microprocessor. **07**  
(b) Explain following assembler directives with example  
PROC, OFFSET, PTR, EVEN, ORG, ASSUME, END. **07**  
**OR**  
(b) Explain processor control instructions with examples. **07**
- Q.3** (a) Draw the interrupt pointer table of 8086 microprocessor & explain type-0 and Type-2 interrupts in detail. **07**  
(b) Describe different addressing modes of 8086 Microprocessor **07**  
**OR**
- Q.3** (a) Give difference between BIU and EU **07**  
(b) Explain Flag Registers of 8086 microprocessor. **07**
- Q.4** (a) Write short notes on segment registers **07**  
(b) Write a program that square any number from 00 to FFh placed in AL and Place the answer in AX. **07**  
**OR**
- Q.4** (a) Write a program to sort all the bytes from 0000 to 000Fh in ascending order. **07**  
**Q.4** (b) Briefly describe Macros. **07**
- Q.5** (a) Write a program to store first 100 even numbers in memory location from 0000H-0063H , find the summation of stored numbers and store sum in memory location 00064H. **07**  
(b) Explain interfacing of I/O devices to the processor **07**  
**OR**
- Q.5** (a) Explain clock generator Intel 8284. **07**  
(b) Write following programs. **07**  
(i) Store the number 1234h in absolute memory address 60000h.  
(ii) Interchange the content of DI and SI

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