

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 What do you understand by addressing modes? Explain different types of addressing modes of 8086 microprocessor.
- Q.4 Differentiate between 8086 and 8088.
- Q.5 What are data transfer instruction? Explain any three types of data transfer instructions with example.
- Q.6 Comparison between 80386 and 80486 microprocessors.
- Q.7 Explain the main functions of IC-8279.

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Roll No.

31552-B

5th Sem. / Instrumentation & Control

Subject : Advanced Microprocessor

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) 8086 microprocessor has _____ pins.
- b) Define accumulator.
- c) Base pointer is a _____ bit register.
- d) What is instruction pointer?
- e) Define sign flag.
- f) Define opcode.
- g) What is the use of stack segment?
- h) ALU stands for _____.
- i) Instruction queue is a _____ byte long FIFO memory.

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31552-B

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31552-B

- j) What is function of bus?
- k) Define physical address.
- l) Define indirect addressing mode.
- m) What is difference between data and address bus
- n) ALE signal is used to _____.
- o) Define non-maskable interrupts.
- p) Give two example of 32 bit micro-processors.
- q) Instruction PUSH is used for _____.
- r) 8259 is used for _____.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) What are main features of 8086?
 - ii) What is base pointer? What is function of base pointer?

(2)

31552-B

- iii) Write a short note on "Operating in minimum mode".
- iv) What is flag register? Name different types of flag used in 8086 microprocessor.
- v) Explain bus interface unit in 8086.
- vi) What is the importance of instruction queue in 8086.
- vii) What is memory segmentation?
- viii) Draw pin diagram of 8086.
- ix) Explain I/O interface of 8086.
- x) What is assembler? What is the use of assembler?
- xi) Write a program for addition of two 16 bit numbers.
- xii) What are various types of interrupts in 8086 microprocessors.
- xiii) What is interrupt vector table? Explain.
- xiv) Write main features on 80486 microprocessor.
- xv) Write a short note on IC-8253.

(3)

31552-B