

**Question Bank (I scheme)**

**Name of subject: MICROPROCESSOR**

**Unit Test :I**

**Subject code: 22415**

**Course : CM**

**Semester: IV**

**CHAPTER1: 8086-16 Bit Microprocessor (CO1) (14 Marks)**

**2 Marks**

- 1 List any four features of 8086.
- 2 Define Pipeline.
- 3 List 16-bit registers of 8086.
- 4 State the function of following pins of 8086.  
(a) TEST (b) BHE
- 5 State the function of following pins of 8086.  
(a) ALE (b) DT/R

**4 Marks**

- 1 Draw the pin diagram of 8086.
- 2 Draw architecture of 8086 and Label it.
- 3 Write any four important functions of BIU.
- 4 Write any four important functions of EU.
- 5 Draw the flag register format of 8086 microprocessor.
- 6 What is memory segmentation? How it is done in 8086 microprocessor.
- 7 Describe the physical address generation processor in 8086 microprocessor.

**CHAPTER 2 : The Art of Assembly Language Programming (CO2) (8 Marks)**

**2 Marks**

- 1 State the function of Editor.
- 2 Describe following assembler directives.  
(a) DD (b) STRUCT
- 3 Describe following assembler directives.  
(a) EQU (b) EVEN
- 4 Difference between Assembler Directive and Instructions.

**4 Marks**

- 1 State the steps involved in program development.
- 2 Explain Assembly language program development tools.
- 3 Describe Value Returning Attribute Directives.

### **CHAPTER 3: Instruction Set of 8086 Microprocessor (CO3) (16 Marks)**

#### **2 Marks**

- 1 State example of immediate addressing mode.
- 2 Identify the addressing mode of the following instructions.  
(a) MUL AL,BL      (b) MOV DX,0040H
- 3 Explain the following instruction of 8086  
(a) XLAT      (b) XCHG
- 4 Explain the following instruction of 8086  
(a) CALL      (b) RET

#### **4 Marks**

- 1 Write the instruction format of 8086 microprocessor.
- 2 State and explain any four addressing mode of 8086 with example.
- 3 With suitable example explain following instruction.  
(a) DAA      (b) ADC  
(c) MUL      (d) AAM
- 4 Explain any four logical instructions of 8086 microprocessor with example.
- 5 List and explain any four string operation instruction.
- 6 Write assembly language instructions of 8086 microprocessor to  
(a) Divide the content of AX register by 50H  
(b) Rotate the content of BX register by 4 bit toward left.