

**ADVANCED MICROPROCESSOR**

5th Exam/EMP/May'15/0645/2464

**Duration : 03 hrs****M.M. 75****Section A****Q1. Attempt all questions:****1.5\*10**

- (i) Intel 8086 is 16 bit HMOS microprocessor. (T/F)
- (ii) The intel 80386 is a \_\_\_\_\_ bit microprocessor.
- (iii) Intel 8087 numeric data coprocessor can perform complex mathematical function. (T/F)
- (iv) Define Microcontroller.
- (v) Define BIU.
- (vi) Write general form of MOV instruction.
- (vii) Write the function of signal HOLD and HLDA.
- (viii) What do you mean by interrupt?
- (ix) What is accumulator? Why it is used?
- (x) What is the use of assembler?

**Section B****Q.2: Attempt any five questions:****5\*6**

- (i) Explain escape instruction of math coprocessor 8087.
- (ii) Explain various types of interrupt in intel 8086.
- (iii) Discuss five applications of microcontroller.
- (iv) Write a assembly program to add two 16 bit numbers.
- (v) Explain various assembly language program development tools.
- (vi) Discuss basic features of 80486 microprocessor.
- (vii) Explain instruction format of 8086 microprocessor.
- (viii) Write short note on any two:
  - (a) Data transfer instruction
  - (b) Arithmetic instruction
  - (c) Processor control instruction

**Section C****Q3. Attempt any three questions:****3\*10**

- (i) Discuss intel architecture of 8086 microprocessor in detail.
- (ii) Explain features and architecture of 8051 microcontroller.
- (iii) Explain various applications of microprocessr.
- (iv) Explain pins and signals of system design using 8086 microprocessor.