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# TRIBHUVAN UNIVERSITY FACULTY OF MANAGEMENT

#### Office of the Dean

2013

Full Marks: 40 Time: 2 hrs.

# BIM / Third Semester / ITC 217: Microprocessor Programming

Candidates are required to answer all the questions in their own words as far as practicable.

#### Group "A"

#### 1. Brief Answer Questions:

 $[10 \times 1 = 10]$ 

- i. Why 8088 is considered 16 bit microprocessor?
- ii. How queue is implemented in 8086?
- iii. Write the use of Loop instruction.
- iv. What is the purpose of linker in assembly language program development?
- v. List the benefits of assembly language.
- vi. Define machine cycle.
- vii. Write the function of BHE / S7 pin.
- viii. What is the purpose of NMI?
- ix. What is DTE and DCE in serial communication?
- Give BSR control word to set and reset PC-5 separately for 8255.

#### Group "B"

#### Short Answer Questions:

 $[5\times 3=15]$ 

- What are the benefits of Harvard architecture over Von Neumann architecture?
- Differentiate between 8086 and 8088 microprocessor.
- Describe the purpose of the 8086 Interrupt Vector Table with diagram.
- Write an assembly language program to input two characters from keyboard and display it.
- Describe I/O Write Machine Cycle with its timing diagram.

## Group "C"

## Long Answer Questions:

 $[3\times 5=15]$ 

- Describe internal registers of 8086 in detail.
- Write an assembly language program to display the greatest number from given array of 5 numbers.
- Draw the block diagram of 8255 PPI and explain.

222