TRIBHUVAN UNIVERSITY

FACULTY OF MANAGEMENT Office of the Dean

2014

Full Marks: 40 Time: 2hrs.

BIM/ Third Semester/ITC 217: Microprocessor Programming

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

Group "A"

1. Brief Answer Question:

[10X 1=10]

- i. How do you determine that microprocessor is an 8,16 or 32 bit
- **ii.** Why instruction queue is required?
- iii. Write use a flag.
- iv. What is the function of segment register in 8086?
- v. Identify the addressing mode for MOV AX, [BX].
- vi. Write the function of 8286.
- vii. What is ISR?
- viii. Define Asynchronous serial transmission.
 - ix. Why interrupt is required?
 - **x.** What is interrupt latency?

Group "B"

Short Answer Question:

- 2. Describe various components of CPU with suitable diagram.
- 3. Make distinction between instruction and directives. Explain with examples.
- **4.** Write 8086 program to input a upper case character from keyboard and display it in lowercase.
- 5. Sketch and explain RS 232 9 pin connection.
- **6.** Describe various methods of parallel communication.

Group "C"

Long Answer Question:

[3X 5=15]

- 7. Describe the various addressing modes of 8086 microprocessor.
- **8.** Write a assembly language program to read string from keyboard and display in reverse order.
- **9.** Draw a block diagram of 8255 PPI and explain.

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