CSC162-2081 ✡

Tribhuvan University
**Institute of Science and Technology**
2081
✡

Bachelor Level / First Year /Second Semester/Science
**Computer Science and Information Technology (CSC162)**
(Microprocessor)
**(OLD COURSE)**

Full Marks: 60
Pass Marks: 24
Time: 3 hours.

*Candidates are required to give their answers in their own words as for as practicable.*
The figures in the margin indicate full marks.

## Section A

**Long answer questions.**
**Attempt any TWO questions.** **(2×10=20)**

1. What is the significance of addressing modes? Explain different types of addressing modes. [2+8]
2. Explain 80286 with respect to its logical block diagram and its segments. [10]
3. What do you understand my ALE? Explain the demultiplexing of address bus with a suitable example. [2+8]

## Section B

**Short answer questions.**
**Attempt any EIGHT questions.** **(8×5=40)**

4. Explain the bus organization of 8085. [5]
5. Write an assembly program to find the largest number in an array. Make necessary assumptions. [5]
6. Explain the concepts of control signals for read operation from memory. [5]
7. Differentiate between PUSH and POP instruction with an example. [5]
8. Explain the timing diagram with an example of your own. [5]
9. Differentiate between LDT and GDT with their practical implications. [5]
10. What are the functions of 8259A? Explain. [5]
11. Explain the concepts of pipelining in 8086? [5]
12. Write short notes on: [2.5+2.5]
    a) Accumulator
    b) Paging