

Mid-West University  
**Examinations Management Office**  
Birendranagar, Surkhet  
**End Semester (Alternative/Physical) Examinations -2078**

Bachelor level/ B.Sc.CSIT / 2<sup>nd</sup> Semester

Full Marks : 60

Time: 3hrs

Pass Marks : 30

**Subject : Microprocessor and Assembly Programming (COM422)**

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

**Attempt ALL questions**

**[6×10=60]**

1. What is Microprocessor? Explain the Application of Microprocessor. **[10]**
2. a) Explain Memory read timing diagram of 8085 Microprocessor. **[5]**  
b) Explain the Architecture of 8086. **[5]**
3. a) Illustrate the different methods of Parallel Communication. **[5]**  
b) Differentiate between EPROM and EEPROM. **[5]**

**OR**

- Explain the Von Neumann Architecture. **[10]**
4. Compare the Addressing Modes of 8085 and 8086 microprocessor. **[10]**
  5. Define Calculator and Stored Program Computer. Clarify the concept of Fetch and execution cycle and fetch execution overlap. **[10]**

**OR**

- Explain the 8086 Functional Units.
6. Difference between a data and control bus. Explain the 8086 Interrupts. **[10]**

**THE END**