

Mid-West University  
**Examinations Management Office**

Semester End Examination 2080

**Bachelor level/ B. Sc. (CSIT)/ II Semester**

**Time: 3 hours**

**Subject: Micro-processor and Assembly Language (COM422)**

**Full Marks: 60**

**Pass Marks: 30**

*Candidates are required to give their answers in their own words as far as practicable. Figures in the margins indicate marks.*

**Group A**

**Very short Answer Questions**

**[8 x 2 = 16]**

1. What is program counter?
2. Describe branch instruction in Register Transfer Language (RTL).
3. Write any two logical instructions of 8085 microprocessor.
4. What is interrupt descriptor table?
5. Define system buses.
6. What is SRAM?
7. What is DMA?
8. Explain the types of EPROM technology.

**Group B**

**Short Answer Questions (Attempt any five)**

**[5 x 4 = 20]**

9. Define a Microprocessor with its application.
10. Explain the instruction cycle of 8085 microprocessor.
11. Write short note
  - a) Polled Interrupt
  - b) Daisy Chain
12. What is assembler? Explain the one-pass assembly and two-pass assembly.
13. Explain the Serial communication interface with its advantage and disadvantage.
14. What is Harvard Architecture? Explain the Component of Harvard Architecture.

**Group C**

**Long Answer Question (Attempt any three)**

**[3 x 8 = 24]**

15. What is addressing mode in 8085 microprocessors? Explain the addressing mode of 8085 microprocessor.
16. Explain the 8259-interrupt controller with block diagram.
17. Explain the 8255 Programmable Peripheral Interface with block diagram.
18. Write an assembly program in 8-bit Microprocessor to multiply two 16-bit numbers and store in the memory location starting from 3500h. Save the carry bits in the location starting from 3600h.

**The End**