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Exam. Code : 208603 Subject Code : 4722

M.Sc. Information Technology 3rd Semester MICROPROCESSOR AND ITS APPLICATIONS Paper : MIT-305

Time Allowed—3 Hours] [Maximum Marks—100 Note :— Attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

SECTION-A

- 1. (a) What are the four building blocks of a Microcomputer system ? Discuss. 10
 - (b) Illustrate the evolution of Intel microprocessors since 1972 according to their word length. 10
- 2. (a) Explain microarchitecture of the 8088/8086 Microprocessor in detail. 15
 - (b) What are the lengths of the 8086's/8088's address bus and data bus ?

SECTION-B

- 3. (a) How is the memory of an 8086/8088 microcomputer organized from a hardware point of view ? 15
 - (b) In a maximum-mode 8088 microcomputer, what code is output on S_4S_3 when an Instruction-fetch bus cycle is in progress ? 5

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- 4. (a) Explain Minimum-Mode Memory Control Signals with respect to memory interface operation. 10
 - (b) Explain Minimum-Mode Memory Read Bus Cycle of 8088 microprocessor. 10

SECTION-C

- 5. (a) Explain how an Isolated I/O Interface is implemented for minimum-mode 8086/8088 microcomputer systems. 10
 - (b) Explain Input Bus Cycle of 8086/8088 microcomputer systems. 10
- 6. (a) Write in detail 8255A Programmable Peripheral Interface. 15
 - (b) How is an 8255A configured if its control register contains 9BH ? 5

SECTION-D

- 7. (a) What do you mean by Interrupt ? What are its types ? Explain. 10
 - (b) Explain Interrupt Vector Table of 8088/8086 Microcomputer. 10
- 8. (a) What are the five groups of interrupts supported on the 8088 and 8086 MPUs ? 10
 - (b) At what address are CS₅₀ and IP₅₀ stored in memory ? 10

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