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Exam. Code : 206704 Subject Code : 4115

M.Sc. Computer Science 4th Semester MICROPROCESSOR AND ITS APPLICATIONS Paper—MCS-402

Time Allowed—3 Hours] [Maximum Marks—100

Note :— Attempt any **five** questions. All questions carry equal marks.

- 1. What is a Microcomputer ? Draw the block diagram of a Microcomputer and explain its various components.
- Explain the role of a Microprocessor in a Computer System. Discuss applications of Microprocessors in other Industries. 20
- 3. Discuss the read/write bus cycles of 8086/8088 Microprocessor. 20
- 4. Explain the pin configuration of 8086/8088 Microprocessor.
- 5. What is Memory Address Space ? Discuss the hardware organization of memory address space. 20
- 6. Explain the instruction execution cycle. 20
- What is an Interrupt ? Explain the interrupt interface of 8086/8088 microprocessor.
 20
- 8. How does 8086/8088 handle interaction with I/O devices ?

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