

Exam. Code : 206704

Subject Code : 4461

M.Sc. Computer Science 4th Semester

MICROPROCESSOR AND ITS APPLICATIONS

Paper—MCS-402

Time Allowed—2 Hours] [Maximum Marks—100

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

1. Explain the general architecture of a microprocessor.
2. Discuss the storage devices for storing data temporarily/permanently.
3. What is an instruction ? Explain the instruction execution sequence.
4. Describe various pins of the 8086 microprocessor.
5. What is address space ? How is it organized ?
6. Write short notes on :
 - (a) Memory control signals
 - (b) Read/write bus cycles.
7. Give examples of devices that communicate with a microprocessor using (a) serial; (b) parallel interfaces. Explain the interaction of I/O interface with these devices.
8. What is an interrupt ? Explain the different types of interrupts and usage of Interrupt Vector Table.