

Exam. Code : 206704

Subject Code : 5260

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. Discuss the detail of different units of Microprocessor and general architecture of microcomputer system. 20
2. (a) Explain the description of different pins of 8088 microprocessor for minimum mode system. 10
(b) Describe the sequence of instruction execution of 8088 microprocessor. 10
3. (a) How memory address space is organized for 8086/8088 microprocessor ? Explain. 10
(b) What are the major memory control signal for 8088 memory interfacing ? Describe their role. 10
4. Explain the following :
(a) Dynamic RAM system
(b) Read write Bus cycles. 20
5. What is the role of USART chip ? Discuss the block diagram of this chip and role of different units of this chip. 20

6. What is the role of interrupt interface ? Explain the need of IVT in detail. 20
7. Discuss the following :
(a) Read bus cycle of 8086
(b) Write bus cycle of 8086. 20
8. Write short notes on the following :
(a) RS 232 C
(b) UART. 20