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 apace 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