Exam. Code : 206704
Subject Code : 8402

M.Sc. (Computer Science) Semester—IV

**MCS-402 : MICROPROCESSOR &
ITS APPLICATIONS**

Time Allowed—? Hours]　　　　　[Maximum Marks—100

Note :— Attempt any FIVE questions. All questions carry
equal marks.

1. Discuss the General Architecture of microcomputer system
along with detail of its different units.　　20

2. (a) Explain the description of different pins of 8086
microprocessor for minimum mode system.　10

 (b) Describe the role of Bus cycle of 8088
microprocessor.　10

3. (a) How address and data space is organized for
8086/8088 microprocessor ? Explain.　10

 (b) What are the major memory control signal for 8086
memory interfacing ? Describe their role.　10

4. Explain the following :

 (a) I/O address space

 (b) I/O Bus cycles.　20

5. What is the role of 8255A chip ? Discuss the block diagram of 8255A chip and role of different units of this chip. 20

6. What is the significance of IVT and use of different types of interrupts ? Explain the need of interrupt interface in detail. 20

7. Discuss the following :

   (a) Read bus cycle of 8088

   (b) Write bus cycle of 8086. 20

8. Write short notes on the following :

   (a) Dynamic RAM

   (b) Instruction Execution Sequence. 20