Exam. Code : 206704 Subject Code : 4645

M.Sc. (Computer Science) Semester-IV MCS-402 : MICROPROCESSOR AND ITS APPLICATIONS

Time Allowed—3 Hours] [Maximum Marks-100

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

- Discuss the detail of input unit, output unit and auxiliary 1 storage unit of Microprocessor. 20
- 2. (a) Explain the description of different pins of 8086 microprocessor for minimum mode system. 10
 - (b) Describe the sequence of instruction execution of 8086 microprocessor. 10
- (a) How address space and data is organized for 3. 8086/8088 microprocessor ? Explain. 10
 - (b) What are the major memory control signal for 8086 memory interfacing ? Describe their role. 10
- Explain the following : 4.
 - (a) Procedure of generating memory addresses
 - (b) Input/Output Bus cycles.
- What is the role of UART chip? Discuss the block 5. diagram of this chip and role of different units of this chip. 20

6952(2517)/STB-14092

(Contd.)

a2zpapers.com

WWW.a2zpapers.com We provide GNDU question papers, PTU question papers, PU question papers,

20

- Discuss the different types of interrupts and need of IVT 6 in detail. 20
- Discuss the following : 7.
 - **Input/Output Instructions** (a)
 - (b) Read bus cycle of 8086. 20
- Write short notes on the following : 8
 - Difference between minimum and maximum mode (a) of Microprocessor
 - (b) USART. 20

a2zpapers.com 2400 WWW.a2zpapers.com We provide GNDU question papers, PTU question papers, PU question papers,