

**6E6052****6E6052****B.Tech. VI Semester (Main/Back) Examination, April/May - 2017****Electronics & Communication Engg.****6EC2A Microprocessors****Time : 3 Hours****Maximum Marks : 80****Min. Passing Marks : 26****Instructions to Candidates:**

*Attempt any five questions, selecting one question from each unit. All Questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitable be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.*

**Unit - I**

1. Draw and explain the block diagram as well as pin diagram of 8085 microprocessor. (16)

**OR**

1. State and explain the various types of addressing modes available in 8085. (16)

**Unit - II**

2. State and explain the conditional call and return instructions of 8085 along with suitable examples. (16)

**OR**

2. State the various data transfer instructions of 8085. Explain them with suitable examples. (16)

**Unit - III**

3. Explain the arithmetic operations related to memory counter and time delays. (16)

**OR**

3. Explain the 16 bit data operations and arithmetic instructions. (16)

### Unit - IV

4. What are vector interrupts? State and explain them. (16)

OR

4. State and explain the interrupts for serial I/O and data communication. (16)

### Unit - V

5. Explain the programmable peripheral devices, along with the pin and block diagram of 8255 PPI. (16)

OR

5. Write short notes on : (8 × 2 = 16)

- i) DMA controller.
- ii) Interval timer.

