Q1: Attempt any four parts:

- 1. Draw the block diagram of microprocessor and explain it in brief.
- 2. Explain the physical address formation with the segment and offset words.
- 3. Discus the improvement of intel 8086 over intel 8085 microprecessor.
- 4. Describe the function of the 8086 queue. How does the queue speed up processing.
- 5. Discuss the features of 8085 interrupts. Also explain the SIM and RIM formats.
- 6. Describe memory segmentation? How can it generate the physical address, explain with example.

Q2: Attempt any four parts:

- 1. Draw the architecture of 8086 microprocessor and explain it in brief.
- 2. Discuss various types of addressing modes of Intel 8085 with suitable examples.
- 3. Explain the various data transfer techniques.
- 4. Draw the pin dia of 8085 microprocessor.
- 5. explain the minimum mode of operation in 8086 microprocessor.
- 6. Explain the instruction: SHLD 16-bit addr, DAA, STA 16 bit addr.

Q3: Attempt any two parts:

- 1. Draw the pin dia. of 8255. What are different operating modes of 8255? Discuss how to determine the control word for 8255. Discuss the BSR mode.
- 2. Draw and explain the block dia of keyboard display controller (8257).
- 3. Draw the internal architecture of 8253 and discuss various operating modes of 8253.

Q4: Attempt any two parts:

- 1. Describe the PCI bus with the help of suitable block diagram. What is the address and data bus width of PCI bus? What is the speed of the PCI bus.
- 2. Explain various DMA controllers. Write an 8086 assembly program to perform multiplication of two binary numbers.
- 3. Why is 8251 called a USART? Define the mode word register of 8251.

Q5: Attempt any two parts:

- 1. What is the difference between dual core and cord to duo? Explain the feature of different available advance microprocessors.
- 2. Write a short note on Pentium processor.
- 3. Draw and discuss the internal block diagram of 80486.

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