

Question Bank

a. General definitions of mini computers etc.,

- Q1. What are the advantages and the limitations microcontroller over a microprocessor?
- Q2. Describe the main blocks in a digital signal processor that are not in a general microprocessor

b. Overview of 8085 Microprocessor

- Q1. List the internal registers in 8085 microprocessor and their abbreviations and lengths. Describe the primary function of each register.
- Q2. Differentiate between NMI and MI interrupts
- Q3. Explain how with external hardware TRAP can be masked
- Q4. Interface a Speaker to SOD pin of 8085 Microprocessor.
- Q5. Explain DMA function in 8085 microprocessor with timing diagrams
- Q6. Explain the timing diagrams of 8085 when it is executing Memory mapped I/O and I/O mapped I/O instructions

c. Overview of 8086 Microprocessor

- Q1. List all the registers associated with the four segment registers
- Q2. List the internal registers in 8086 Microprocessor
- Q3. What are the main blocks in BIU and EU
- Q4. Explain the coordination between BIU and EU

d. Signals and pins of 8086 microprocessor

- Q1. How do you configure 8086 into minimum and maximum modes
- Q2. Bring out the differences between $\overline{8086}$ and 8088 processors
- Q3. Explain all the features in 8284
- Q4. Why and when wait states are required. How do you insert wait states