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 an 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 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