

## Question Bank

- a. Interfacing with peripherals like keyboards, LEDs, 7 segment LEDs, LCDs, ADCs, etc.,**
- Q1. Sketch and explain the interface of 5x4 key matrix using 74923.  
Write an 8051 assembly program segment to input the code of keys.
- Q2. Sketch and explain the interface of 4X7Segment LEDs in multiplexed mode.  
Write an 8051 assembly program segment to flash CEDT at 5Hz
- Q3. Sketch the interface of a 16ch x 1line LCD to the 8051 microcontroller. Write an 8051 assembly program segment to display any Logo
- Q4. Sketch the interface of a serial ADC MAX 192 to the 8051 microcontroller. Write an 8051 assembly program segment to read an analog signal through the ADC
- Q5. Sketch the interface of a dual DAC 7303 to the 8051 microcontroller. Output the DAC outputs are connected to an analog comparator. A LED is connected to the output of the comparator for indication. Write an 8051 assembly program segment to flash if one analog input is greater than the other.
- Q6. Sketch the interface of a RTC 1302 to the 8051 microcontroller. Write an 8051 assembly program segment to read and write real time into the RTC.