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**Microprocessor and Microcontroller**

**Important 13mark questions**

**Unit I**

1. Explain with a neat block diagram, the architecture of 8085 microprocessor.
2. Explain the function of the various interrupts available with 8085 microprocessor.

**Unit II**

1. Explain the various addressing modes of 8085 microprocessor with example.
2. Write an 8085 assembly language program to divide an 8 bit number by another 8 bit number?

**Unit III**

1. Explain the architecture of 8051 microcontroller with a block diagram.
2. Explain the I/O ports of 8051 microcontroller in detail.

**Unit IV**

1. Explain the functioning of 8255 programmable peripheral interfaces and its modes.
2. Explain the working of 8279 as a keyboard/display controller and explain its command registers and their functions.

**Unit V**

1. Explain the different types of instructions set used in 8051 microcontroller.
2. Explain with a neat diagram, the closed loop control of servomotor using microcontroller.