

Microprocessor Most Important Questions (Must Read)

1. Draw the block diagram of SAP-1 microprocessor and briefly describe each block.
2. Draw the block diagram of SAP-2 microprocessor and briefly describe each block.
3. Compare and contrast between SAP-1 and SAP-2 microprocessor.
4. Describe memory mapped I/O and Peripheral I/O?
5. Explain the application of flags in 8085 microprocessors. Discuss the different types of flags in 8085 microprocessors with examples.
6. Explain the application of flags in 8086 microprocessors. Discuss the different types of flags in 8086 microprocessors with examples.
7. Draw and explain the block diagram of 8085 microprocessor architecture.
8. Draw and explain the block diagram of 8086 microprocessor architecture.
9. What is addressing mode? Write its importance.
10. Explain with examples about the different addressing modes of 8085 microprocessor.
11. Explain with examples about the different addressing modes of 8086 microprocessor.
12. What is timing diagram? Draw the timing diagram of opcode fetch machine cycle.
13. What do you mean by interrupts? Explain in detail about software interrupts.
14. Explain the serial and parallel communication in detail.
15. Explain the working principal of DMA controller with block diagram.
16. Explain about the two independent functional part BIU and EU in detail.
17. Compare and contrast between RISC and CISC.
18. Draw the diagram of 4x4 matrix keyboard interfacing and explain how it recognize which key will be pressed.

Very Important Questions

1. Define instruction cycle, machine cycle and T-state.
2. Differentiate between Vectored and Non-Vectored interrupt?
3. Explain Programmable Interval Timer (8254) with its block diagram.
4. Draw the timing diagram for MVI B and explain it.
5. Draw the timing diagram for MVI A, 35H.
6. What is Hyper Threading in processor?
7. What are the functions of an accumulator?
8. Explain the different types of interrupts.
9. What is RS-232? What type of data communication it supports?