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MICROPROCESSOR VIVA QUESTIONS

- 1) Define Microprocessor.
- 2) Why 8086 is called as a advanced microprocessor?
- 3) How many bit processors is 8086? Why?
- 4) How many bit pin IC, is 8086, power supply required, operating frequency?
- 5) How many number of memory locations?
- 6) Say the function of A0 and BHE
- 7) How many modes of operation did 8086 has?
- 8) How many addressing modes?
- 9) What are addressing modes?
- 10) Why input, output port addressing mode is required?
- 11) What is fixed and variable port addressing mode?
- 12) How many memory segmentations are available?
- 13) What is the advantage of segmentatib on?
- 14) How memory is organized in 8086?
- 15) What are macros?
- 16) Difference between macros and cal
- 17) Explain AAA, AAS, AAM, AAD
- 18) How to use AAD?
- 19) Define flag
- 20) How many bit flag register is 8086?
- 21) What are conditional flags?
- 22) What are control flags?
- 23) What are the functions of execution unit?
- 24) What is pipelining?
- 25) What is instruction queue register?
- 26) Say the function of general purpose register AX, BX, CX and DX
- 27) What are segment registers?
- 28) Define the functions of each segment registers
- 29) What are public and EXTRN?
- 30) Explain PUSH and POP of 8086
- 31) Explain lock prefix
- 32) Explain TEST pin and TEST instruction
- 33) Difference between minimum and maximum modes of operation
- 34) How to use difference banks of 8086?
- 35) How to generate 20-bit physical address?
- 36) What are interrupts?
- 37) Difference between hardware and software interrupts
- 38) Difference between vectored and non-vectored interrupts
- 39) Difference between edge triggered and level triggered interrupts
- 40) What is interrupt vector table?
- 41) How much memory is reserved for interrupts?
- 42) What is ISS?
- 43) Which register holds the ISS address?

Microprocessors (EECS603)

1. What is Microprocessor ? What are the basic units of a microprocessor ?

It is a program controlled semiconductor device (IC), which fetches, decodes and executes instructions.
The basic units or blocks of a microprocessor are ALU, an array of registers and control unit.

2. What is multiplexing and what is its advantage? How the address and data lines are demultiplexed in 8085?

Multiplexing is transferring different information at different well defined times through same lines. A group of such lines is called multiplexed bus. The advantage of multiplexing is that fewer pins are required for microprocessors to communicate with outside world.

The low order address and data lines of 8085 are demultiplexed using an external 3-to-1 Latch (74LS373) and the ALE signal of 8085, as shown in fig.

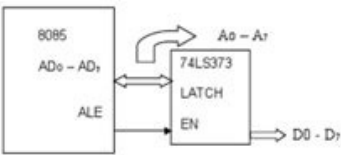


Fig. Demultiplexing of address and data lines in 8085 processor

At the beginning of every machine cycle, ALE is asserted high and then low. Also the low byte of address is given out through AD0-AD7 lines. Since the ALE is connected to Enable of Latch, when ALE is asserted high and then low the addresses are latched into the output lines of the latch. Now the lines AD0-AD7 are free for data transfer.

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1. The minimum number of transistors required to implement a two input AND gate is

- A. 2
- B. 4
- C. 6
- D. 8

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AICTE DESIGN ACADEMY

A typical microprocessor consists of arithmetic and logic unit (ALU) in association with control unit to process the instruction execution. Almost all the microprocessors are based on the principle of store-program concept. In *store-program concept*, programs or instructions are sequentially stored in the memory locations that are to be executed. To do any task using a microprocessor, it is to be programmed by the user. So the programmer must have idea about its internal resources, features and supported instructions. Each microprocessor has a set of instructions, a list which is provided by the microprocessor manufacturer. The instruction set of a microprocessor is provided in two forms: *binary machine code* and *mnemonics*.

Microprocessor communicates and operates in binary numbers 0 and 1. The set of instructions in the form of binary patterns is called a *machine language* and it is difficult for us to understand. Therefore, the binary patterns are given abbreviated names, called mnemonics, which forms the *assembly language*. The conversion of assembly-level language into binary machine-level language is done by using an application called *assembler*.

Technology Used:

The semiconductor manufacturing technologies used for chips are:

- Transistor-Transistor Logic (TTL)
- Emitter Coupled Logic (ECL)
- Complementary Metal-Oxide Semiconductor (CMOS)

Classification of Microprocessors:

Based on their specification, application and architecture microprocessors are classified.

Based on size of data bus:

- 4-bit microprocessor
- 8-bit microprocessor
- 16-bit microprocessor
- 32-bit microprocessor

Based on application:

- General-purpose microprocessor- used in general computer system and can be used by programmer for any application. Examples, 8085 to Intel Pentium.
- Microcontroller- microprocessor with built-in memory and ports and can be programmed for any generic control application. Example, 8051.
- Special-purpose processors- designed to handle special functions required for an application. Examples, digital signal processors and application-specific integrated circuit (ASIC) chips.



Three multi-investigator groups that operate principally in the TB/HIV space: The South African TB Vaccine Initiative (SATVI), which includes Mark Hatherill (Director), Tom Scriba (Deputy Director) and Elisa Nemes; The Wellcome Centre for Infectious Diseases Research in Africa (CIDRI-Africa) which includes Robert Wilkinson (Director), Graeme Meintjes, Catherine Riu and Anna Coussens 19.10.2021 - MS-Word MCQ; Power Point Slide Creation; CCC Course; CCC Mock Test; O Level course; ... 4000 Computer Questions and Answers in English; Best Computer Notes for All Competitive Exams; ... Microprocessor 8086 Video Play List; Download Emu8086 Simulator; Download Lab Report Cover Page; In this section of Data Communication and Networking - Network Security MCQ (Multiple Choice) Based Questions and Answers, it cover the below lists of topics.All the Multiple Choice Questions and Answers (MCQs) have been compiled from the book of Data Communication and Networking by the well known author behrooz forozan.

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