Last Moment Tuitions

Microprocessor

VIVA QUESTIONS

Module 1 : The Intel Microprocessors 8086 Architecture

1. What is the 8086 CPU architecture?

● The 8086 CPU architecture is a 16-bit microprocessor architecture developed by Intel in
the late 1970s.

● It is a complex instruction set computer (CISC) architecture that supports a wide variety
of instructions.

2. What is the Programmer's Model in the 8086 microprocessor?

● The Programmer's Model is a conceptual model of the 8086 microprocessor that
describes the processor's registers and their functions.

● It includes registers such as the accumulator, index registers, segment registers, and the
instruction pointer.

3. What is the Functional Pin Diagram of the 8086 microprocessor?

● The Functional Pin Diagram of the 8086 microprocessor shows the different pins of the
processor and their functions.
● It includes pins for power supply, clock input, address and data buses, control signals, and
Interrupts

4. What is Memory Segmentation in the 8086 microprocessor?

● Memory Segmentation is a memory management technique used by the 8086
microprocessor that divides the memory into segments.
● Each segment has a starting address and a size, and is addressed using a segment register.

5. What is Banking in the 8086 microprocessor?

● Banking is a technique used by the 8086 microprocessor to access more memory than can
be addressed directly.
● It involves switching between different banks of memory using bank select signals.

Module 2 : Instruction Set and Programming

1. What are Addressing Modes in the context of microprocessors?

● Addressing Modes refer to the different ways in which the operands of an instruction can
be specified in a microprocessor.
● Some examples of addressing modes are immediate addressing, register addressing,
indirect addressing, and relative addressing.

2. What are Data Transfer Instructions in the instruction set of a microprocessor?

● Data Transfer Instructions are instructions that move data between registers or between
memory and registers.
● Examples of Data Transfer Instructions in the 8086 microprocessor include MOV,
XCHG, and LEA.

3. What are String Instructions in the instruction set of a microprocessor?

● String Instructions are a set of instructions that allow manipulation of strings of
characters or bytes in memory.
● Examples of String Instructions in the 8086 microprocessor include MOVS, CMPS, and
STOS.

Last Moment Tuitions - #DostSeAchaKoiTeacherNahi

4. What are Logical Instructions in the instruction set of a microprocessor?

● Logical Instructions are instructions that perform logical operations such as AND, OR,
XOR, and NOT on data in registers or memory locations.
● These instructions are used for bit manipulation, data masking, and data comparison.

5. What are Arithmetic Instructions in the instruction set of a microprocessor?

● Arithmetic Instructions are instructions that perform arithmetic operations such as
addition, subtraction, multiplication, and division on data in registers or memory
locations.
● These instructions are used for numerical calculations, data conversion, and data scaling.

FOR MORE MODULE Check our App now 👇**(FOR FREE)**

AND OTHER SUBJECT VIVA QUESTION WITH SOLUTION IS ALSO THERE IN OUR APP.

Download our App Now:
https://play.google.com/store/apps/details?id=co.jones.cjzgt

Last Moment Tuitions - #DostSeAchaKoiTeacherNahi