

SNS COLLEGE OF TECHNOLOGY



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DEPARTMENT OF ELECTRICAL & ELECTRONICS

ENGINEERING

19EEB303 / Microcontroller and its Applications

QUESTION BANK

UNIT I: INTRODUCTION

Part A - 2 Marks

1)	What is the processing element inside the microprocessor? What process it does?	[NOV/DEC 2014]
2)	How many memory locations can be addressed by 8086 microprocessor?	[NOV/DEC 2014]
3)	If the stack segment register contains 3000 _H and the stack pointer register contains	[NOV/DEC 2014]
	8434 _H , what is the physical address of the top of the stack?	

4)	What do you mean by addressing modes?	[MAY/JUN 2014]
5)	Give the operation of CBW and TEST instructions of 8086?	[NOV/DEC 2013]
6)	What is the function of parity flag?	[NOV/DEC 2013]
7)	How 16-Bit address is converted into 20-Bit address in 8086?	[NOV/DEC 2013]
8)	Name the hardware interrupts of 8086.	[MAY/JUN 2013]
9)	What address in the interrupt vector table, are used for a Type-2 interrupt in 8086?	[NOV/DEC 2012]
10)	Why do we use macros?	[NOV/DEC 2012]
11)	What are called assembler directives? Give two examples.	[MAY/JUN 2012]
12)	What is BIOS function call in 8086 Microprocessor?	[MAY/JUN 2012]

- 13) Explain the coordination between BIU and EU.
- 14) If BH = 0F3_H, what is the value of BH in hex after the instruction SAR BH, 1.
- 15) If AL = 78_H and BL=73_H, explain how DAS instruction (after subtracting BL from AL) adjusts to the BCD result.
- 16) Draw the 8086 flag register format.
- 17) Why AAD is to be executed before DIV instruction while converting unpacked BCD to Binary number?
- 18) List the pointer and index registers of 8086 architecture.
- 19) Identify the addressing modes involved in the following 8086 instructions: MOV AX, 0005H; MOV AX, 50H [BX][SI].
- 20) Give the significance of Interrupt flag in 8086 processor.
- 21) Give a note on the use of auxiliary carry flag.
- 22) What do you mean by Non Maskable Interrupt?
- 23) List the different flags affected by the arithmetic and logic operations.
- 24) Draw the contents of the stack and the registers after a PUSH instruction.
- 25) What is an interrupt service routine?
- 26) What is storage space required to store the interrupt vectors of 8086?
- 27) What is pipelined architecture?
- 28) What are the maximum address space and data bus width of 8086 processor?
- 29) Mention the addressing modes of the following 8086 instructions: MOV AL, disp[BX]; MOV AH, disp[BX], [SI]