



UNIT-II

INTRODUCTION TO MICRO CONTROLLER

S.No	Questions	BT	CO	PO
Part – A (Short Answer Questions)				
1	Compare between MOVX and MOV	L2	Co2	PO1,PO4
2	Draw the blocks of Micro controller and explain each block	L2	Co2	PO1,PO4
3	Mention the special function registers used for serial communication in 8051	L3	Co2	PO1,PO4
4	Express the PSW register format in 8051 and give example instructions which effect the respective flags	L1	Co2	PO1,PO4
5	Explain the modes of operation of timers in 8051	L1	Co2	PO1,PO4
6	Explore the interrupt management of 8051 microcontroller	L2	Co2	PO1,PO4
7	Write short notes on Logical Instructions of 8051.	L2	Co2	PO1,PO4
8	Explain the use of EA bit.	L1	Co2	PO1,PO4
9	Explain how external interrupts are serviced in 8051	L1	Co2	PO1,PO4
10	Write the function of the bits PSW.3 & PSW.4.	L1	Co2	PO1,PO4
Part – B (Long Answer Questions)				
11	a) Discuss the register set of 8051 and also discuss how memory and I/O addressing is done in 8051.	L1	Co2	PO1,PO4
	b) Discuss internal architecture of 8051 microcontroller in detail.	L2	Co2	PO1,PO4
12	a) List the format of PSW register of 8051 and explain each bit.	L1	Co2	PO1,PO4
	b) Discuss about the memory organization and special function registers in 8051 microcontroller	L2	Co2	PO1,PO4
13	a) Compare timer & counter? Analyze the 16-bit timer mode and 8-bit auto- reload mode of 8051 microcontroller.	L3	Co2	PO1,PO4
	b) Describe how interrupts are handled in 8051 micro controller with details corresponding SFRs.	L4	Co2	PO1,PO4
14	a) Classify the types of serial communication with examples.	L2	Co2	PO1,PO4
	b) Explain about TCON & TMOD operation with an example.	L2	Co2	PO1,PO4
15	a) Discuss about the Data Memory organisation of 8051.	L1	Co2	PO1,PO4
	b) Describe the register set of 8051 Microcontroller with examples	L1	Co2	PO1,PO4
16	a) Enumerate the addressing modes of 8051 microcontroller with examples	L2	Co2	PO1,PO4
	b) Explain TCON & TMOD ,IE,IP operation with an example in 8051.	L4	Co2	PO1,PO4