

# Microprocessor and Interfacing

## Assignment: 1

### Short Questions

1	Define PSW.
2	What is Auxiliary Carry?
3	Why Data Bus is bidirectional in 8085?
4	How many Address lines are required for addressing 2048 Bytes of Memory Chip?
5	What is Tri-state Device?
6	What is ALE?
7	Which Interrupt has Highest Priority?
8	_____ & _____ instruction affect all flags except CY Flag.
9	_____ instruction does not affect any Flags.
10	What is the function of Assembler?
11	The _____ Operation does not affect any Flags.
12	Explain LDAX B instruction.
13	Explain STAX B instruction.
14	What is the function of HOLD?
15	What happens when HLT instruction is executed in processor?
16	What is Program counter?
17	What is Machine language?
18	What are interrupts?
19	Mention the purpose of SID and SOD lines.
20	List few application of Microprocessor based system.
21	What is the function of IO/M signal in the 8085?
22	Explain the difference between a JMP instruction and CALL instruction.
23	What is meant by Wait State?
24	What is meant by polling?
25	What are operations performed on data in 8085?
26	What is an opcode and operand?
27	How many memory locations can be addressed by 8085 with 14 address lines?
28	What is flag?
29	How many bits are stored by a 256x4 memory chip? Can this chip be specified as 128 bytes memory?
30	What is transparent latch, and why is it necessary to use a latch with output device such
31	In peripheral mapped I/O, can an input port and output port have the same port address?
32	If an input port and output port have the same 8-bit port address, how does the 8085 differentiate between the ports?
33	What are the control signals necessary in memory mapped I/O?
34	Specify the 8085 signals that are used to enable an input port.
35	No flag will be affected during data transfer instruction. True or False?

36	What is difference between DEC A and SUI 01H ?
37	Write instructs to exchange data between two register without using XCHG and MOV instruction.
38	TRAP is non-makeable interrupt. True or False?
39	What is an ALU?
40	What is an Assembler?
41	What do you mean by memory word?
42	What do you mean by T-State?
43	What do you mean by Machine cycle?
44	Why the number of out ports in the peripheral-mapped I/O is restricted to 256 ports?
45	What do you mean by absolute decoding?
46	What do you mean by partial decoding?
47	Give the various modes of 8254 timer?
48	What is read back command in 8254 timer?
49	What are the various registers in 8085?
50	What is meant by Maskable interrupts?
51	What is Non-Maskable interrupts?
52	What is SIM and RIM instructions?
53	Why crystal is a preferred clock source?
54	Name 5 different addressing modes of 8085.
55	Which Stack is used in 8085?
56	What are level-triggering interrupt in 8085?
57	Which interrupt is not level-sensitive in 8085?
58	What are Software interrupts in 8085?
59	In 8085 name the 16 bit registers?
60	How many interrupts are there in 8085?
61	What is an interrupt?
62	What are Hardware interrupts?
63	Can an RC circuit be used as clock source for 8085?
64	Why 8085 processor is called an 8 bit processor?
65	What is the difference between microprocessor and microcontroller?
66	What is the position of the Stack Pointer after the POP instruction?
67	What is the position of the Stack Pointer after the PUSH instruction?