COM-503 TUTORIAL - 1

1. Specify the contexecuted.								instructions	are
MVI A,00 MVI B,F5 MOV C,A MOV D,B HLT	A	В	С	D	S	Z	CY		
2. Specify the contexecuted.	tents of	f the re	gisters	and the	e flag s	status as	the following	instructions	are
	A	В	S	Z	CY				
	08	XX	0	0	0	Initial	Contents		
SUB A MOV B,A DCR B INR B SUI 01 HLT									
3. Specify the regist executed.	ter cont	ents ar	nd the	flag stat	tus (S,	Z, CY)	after the instru	ction ORA	A is
MVI A, A9									
MVI B, 57									
ADD B									
ORA A									
4. Specify the convexecuted.	tents of	f the re	gisters	and the	e flag s	status as	the following	instructions	are
	A	В	A	Z	CY				
	02	05	0	1	0				
XRA A									
MVI B, 4A									
SUI 4F									
ANA B									
HLT									

5. Explain the following instructions w.r.t . their working, addressing mode, word length, storage capacity, flags affected,.

MOV A,M LHLD 9500 LXI D, 314B ANA M MVI M, 8C STAX D LDA 9600 ADC M SUI 09 ORA B JMP 8000 JC 9400 XCHG RAL NOP DAD B DCX B LDAX D

- 6. WAP to count the no. of zero's and one's in a given 8-bit data stored in memory location 5000h
- 7. WAP to swap the nibbles of 10 data items stored in memory location XX50H onwards.
- 8. WAP to search a given no. in a list of 10 data items stored in memory location XX50H onwards. Store 01 in memory location 5000 if found otherwise store 00.
- 9. WAP to add even data items in a set of 10 data items stored in memory location XX50H onwards. Also count the no. of even data items.
- 10. WAP to shift the contents of 10 data items stored in memory location XX50H onwards to XX70H onwards.