1. The contents of different registers are given below. Form **Effective addresses** for different addressing modes are as follow:

Offset = 5000H  
[AX]- 1000H, [BX]- 2000H, [SI]- 3000H, [DI]- 4000H, [BP]- 5000H,  
[SP]- 6000H, [CS]- 0000H, [DS]- 1000H, [SS]- 2000H, [IP]- 7000H.

I. MOV AX, [5000H]  
a) 5000H  b) 15000H  c) 10500H

II. MOV AX, [BX][SI]  
a) 13000H  b) 15000H  c) 12000H

III. MOV AX, 5000H [BX][SI]  
a) 20000H  b) 1A000H  c) 1A00H

2. The conditional branch instruction JNS performs the operations when if ___
  
a) ZF = 0  b) SF = 0  c) PF = 0  d) CF = 0

3. Vector address of TRAP
  
a) 24H  b) 36H  c) 24  d) 18H

4. SOD pin can drive a D flip-flop?
  
a) SOD cannot drive any flip-flops.  
b) SOD cannot drive D flip-flop, but can drive any other flip-flops.  
c) Yes, SOD can drive D flip-flop.  
d) No, SOD cannot drive any other flip-flops except D flip-flop.

5. IDIV and DIV instructions perform the same operations for?
  
a) Unsigned number  b) Signed number  c) Signed number & Unsigned number  d) none of above.

6. What is the output of the following code
   AL=88 BCD,  CL=49 BCD  
   ADD AL, CL  
   DAA  
   a) D7, CF=1  b) 37, CF=1  c) 73, CF=1  d) 7D, CF=1

7. What is the output of the following code
   AL= 49 BCD, BH= 72 BCD  
   SUB AL, BH  
   DAS  
   a) AL=D7, CF=1  b) AL=7D, CF=1  c) AL=77, CF=1  d) none of them.

8. What is the output of the following code
   AL= -28 decimal, BL=59 decimal  
   IMUL BL  
   AX=? , MSB=?  
   a) AX= F98CH, MSB=1.  b) AX= 1652, MSB=1.  c) BX F9C8H, MSB=1.  
   d) BX= 1652, MSB=1.

9. What is the output of the following code
   AL= 00110100  BL= 00111000  
   ADD AL, BL  
   AAA  
   a) AL = 6CH  b) 12H  c) 12  d) C6H

10. What is the output of the following code
    AL=00110101  BL= 39H
11. What is the output of the following code
CF = 0, BH = 179
RCL BH, 1
a) CF=0, OF= 1, BH= 01100101 b) CF=1, OF=1, BH=01100110
c) CF=1, OF=0, BH=01001101 d) CF=0, OF=0, BH=00101100
12. What is the output of the following code
SI=10010011 10101101, CF=0
SHR SI, 1
a) 37805, CF=1, OF=1 b) 18902, CF=1, OF=1
c) 19820, CF=1, OF=1 c) 53708, CF=1, OF=1
13. What is the output of the following code
BX=23763 CL=8
ROL BX, CL
a) 0101110011010011, CF=0 b) 1101001101011100, CF=0
c) 0110100010011101, CF=1 c) 1011100110001100, CF=1
14. What is the output of the following code
PUSH AL
a) Decrement SP by 2 & push a word to stack
b) Increment SP by 2 & push a word to stack
c) Decrement SP by 2 & push a AL to stack
d) Illegal
15. What is the output of the following code
AX = 37D7H, BH = 151 decimal
DIV BH
a) AL = 65H, AH= 94 decimal
b) AL = 5EH, AH= 101 decimal
c) AH= E5H, AL= 5EH
d) AL = 56H, AH= 5EH
16. In 8086 microprocessor one of the following instructions is executed before an arithmetic operation
a) AAM  b) AAD  c) DAS  d) DAA
### Multiple Choice Questions

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**Key:**