

1 No Qus Ans

- Ⓐ TWO-WORDS is legal.
- Ⓑ ?1 is legal.
- Ⓒ Two words is illegal because blank space are not allowed.
- Ⓓ .@? is illegal.
- Ⓔ \$145 is legal.
- Ⓕ LET'S\_GO is illegal because apostrophe symbol is not allowed.
- Ⓖ T = . is illegal because = symbol and blank space are not allowed and . not first character.

2 No Qus Ans

- Ⓐ 246 is decimal number.
- Ⓑ 246h is hex number.
- Ⓒ 1001 is decimal number.
- Ⓓ 1,101 is illegal. because contains a nondigit character.
- Ⓔ 2A3h is hex number.
- Ⓕ FFFEh is ~~hex number~~ illegal number.
- Ⓖ 0Ah is hex number.
- Ⓗ Bh is illegal number because doesn't begin with + decimal.
- Ⓘ 1110B is binary number.



3 No Ques Ans

(a) A DW 52

(b) WORD1 DW '?'

(c) B DB 25h

(d) C1 DB '?'

(e) WORD1 DW 65536

(f) ARRAY1 DW 1,2,3,4,5

(g) BELL EQU 07h

(h) MSG EQU 'THIS IS A MESSAGES'

4 No Ques Ans

| variable | content | Address |
|----------|---------|---------|
| A        | 7       | 0000    |
| B        | BC      | 0001    |
|          | 1A      | 0002    |
| C        | H       | 0003    |
|          | E       | 0004    |
|          | L       | 0005    |
|          | L       | 0006    |
|          | O       | 0007    |

(a) A:0000

B:0001

C:0003

(b) 1A

(c) E

(d) 0007



5 No Qus Ans

Ⓐ MOV DS, AX is Legal.

Ⓑ MOV DS, 1000h is Illegal because we can't use seg register with an immediate value.

Ⓒ MOV CS, ES is Illegal because seg register cannot go together.

Ⓓ MOV W1, DS is Legal.

Ⓔ XCHG W1, W2 is Illegal. because XCHG operation is

~~Ⓕ SUB~~ used to exchange the contents of two register or, a register and a memory location.

Ⓖ SUB 5, B1 is Illegal

Ⓗ ADD B1, B2 is Illegal.

Ⓙ ADD AL, 256 is Illegal.

① MOV W1, B1

6 No Qus Ans

Ⓐ  $A = B - A$

MOV AX, A

MOV BX, B

SUB BX, AX

MOV A, BX

⑥  $A = -(A+1)$

MOV AX, A

ADD AX, 1

NEG AX

MOV A, AX

⑦  $C = A + B$

MOV AX, A

ADD AX, B

MOV C, AX

⑧  $B = 3 * B + 7$

MOV AX, B

ADD AX, B

ADD AX, B

ADD AX, 7

MOV B, AX

⑨  $A = B - A - 1$

MOV BX, B

SUB BX, A

SUB BX, 1

MOV A, BX