QUESTION 1

```
mov al, 30h
mov ah, 89h
dec ah
add al, 45
sub al, ah
inc al
```

= CF 1   SF 1   IF 1
= THE SIGN FLAG IS SET TO 1 BECAUSE OF LEFT MOST BIT IS 1.

QUESTION 2

```
(a) add ax, 100 = LEGAL
(b) add ax, bx = LEGAL
(c) add ax, bl = ILLEGAL
(d) add count, count = ILLEGAL
(e) sub count, ax = ILLEGAL
(f) inc al, bl = ILLEGAL
(g) dec dx = LEGAL
(h) inc count = ILLEGAL
```