

Pré-Laboratório 06

Questão 1 :

Resposta : `_CONFIG = 0x3F10`

Questão 2:

Resposta : `_CONFIG _CP_OFF & DATA_CP_OFF & _LVP_OFF & _BOREN_ON & _MCLRE_ON
& _PWRTE_ON & _WDT_ON & _INTOSC_OSC_NOCLKOUT`

Questão 3 :

Questão 4 :

```
1  #INCLUDE <P16F628A.INC>
2
3  DCounter1    EQU    0x21
4  DCounter2    EQU    0x22
5  DCounter3    EQU    0x23
6
7  ORG          0x00
8      GOTO      INI
9
10 ORG          0x04
11     RETFIE
12
13 INI :
14     BANKSEL    CMCON
15     MOVLW      0x07
16     MOVWF      CMCON
17
18     BANKSEL    TRISA
19     BCF        TRISA ,0
20
21 MAIN :
22     BANKSEL    PORTA
23     BCF        PORTA ,0
24     CALL       DELAY_01S
25     BSF        PORTA ,0
26     CALL       DELAY_39S
27     GOTO       MAIN
28
29 DELAY_01S :
30     MOVLW      0xA8
```

```

31      MOVWF   DCounter1
32      MOVLW   0x45
33      MOVWF   DCounter2
34      MOVLW   0x02
35      MOVWF   DCounter3
36      LOOP01
37      DECFSZ  DCounter1, 1
38      GOTO    LOOP01
39      DECFSZ  DCounter2, 1
40      GOTO    LOOP01
41      DECFSZ  DCounter3, 1
42      GOTO    LOOP01
43      NOP
44      RETURN
45
46  DELAY_39S:
47      MOVLW   0x35
48      MOVWF   DCounter1
49      MOVLW   0xF3
50      MOVWF   DCounter2
51      MOVLW   0x05
52      MOVWF   DCounter3
53      LOOP39
54      DECFSZ  DCounter1, 1
55      GOTO    LOOP39
56      DECFSZ  DCounter2, 1
57      GOTO    LOOP39
58      DECFSZ  DCounter3, 1
59      GOTO    LOOP39
60  RETURN
61
62  END

```