

Quiz 1B Solution

رقم الشعبة: 3

رقم التسجيل:

الاسم:

Instructions: Time **10** minutes. Closed books and notes. No calculators. Please answer all problems in the space provided. **No questions are allowed.**

<Good Luck>

Q1. State six features of the PIC microcontrollers.

1. Low-cost	4. Harvard structure
2. Self-contained	5. Pipelined
3. 8-bit	6. RISC
7. Single accumulator	8. Fixed reset and interrupt vectors

Q2. What is the main difference between EPROM and EEPROM memories?

EEPROM can be erased electrically, but EPROM must be erased through exposure to ultra violet light.

Q3. What is the effect of the following instruction?

```
xorlw B'11111111'
```

The content of the Working Register is inverted.

Q4. What is the effect of the following two instructions?

```
rlf    20, 1
rrf    20, 0
```

The content of Register 20 is shifted one bit to the left.

The LSB of Register 20 equals the C flag.

The Working Register get the previous value of Register 20.

Q5. What is the content of the working register after executing the following sequence of instructions?

```
clrf   08
incf   08, 1
swapf  08, 0
```

0000 0000 -> 0000 0001 -> 0001 0000