Assignment 4

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) Which of the following is true about the MSP430 Microcontroller? 1 point
   - MSP430 has an 8-bit data bus
   - MSP430 has 2 frequency registers
   - MSP430 supports 2 Low Power Modes
   - Words are stored in memory in Little endian ordering
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answer: Words are stored in memory in Little endian ordering

2) Which of the following is used to store the return addresses of the function calls? 1 point
   - Program Counter
   - Status Register
   - Stack Pointer
   - Status Pointer
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answer: Stack Pointer

3) Which of the following is not true about Flash information memory in MSP430? 1 point
   - The information memory has 512-byte sized segments.
   - The difference between the information memory and flash main memory is in the size of segments and the physical addresses.
   - The information memory stores calibration data of the Oscillator in one of the segments.
   - The information memory in MSP430 is sequenced address space from 0x1000 to 0x1FF of the Memory Map.
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answer: The information memory in MSP430 is sequenced address space from 0x1000 to 0x1FF of the Memory Map.

4) Which of the following bits of the status register allows the MSP430 to operate in the power saving modes, i.e. Low power modes? 1 point
   - CPUOFF, V, Z, N
   - CPUOFF, OCOFF, S0, S1
   - CPUOFF, SCS0, SCS1, GIE
   - CPUOFF, SCS0, SCS1, V
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answer: CPUOFF, GIE, SCS0, SCS1

5) _BIC_SR_RS2() is used to 1 point
   - Set the particular bits of the SR
   - Reset the particular bits of the SR
   - Any of the above mentioned depending on the conditions
   - None of the above
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answer: Reset the particular bits of the SR

6) Which of the following best explain why MSP430 is called an ultra low power MCU? 1 point
   - The MSP430 CPU can be clocked with the help of an external crystal.
   - It can be powered by a sensor battery.
   - It is a 16-bit microcontroller with a brownout detector.
   - It is a 16-bit microcontroller which has a brownout detector.
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answer: It is a 16-bit microcontroller which has a brownout detector.

7) What is the output current range of any Digital IO pin in MSP430? 1 point
   - +5mA to +15mA
   - +10mA to +30mA
   - -10mA to +10mA
   - +4mA to +8mA
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answer: +4mA to +8mA

8) Typical operating voltage range of MSP430 is: 1 point
   - 3V
   - 5.7V
   - 1.8-3.6V
   - 5.12V
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answer: 1.8-3.6V

9) MSP4302653 is termed as a 16-bit microcontroller because: 1 point
   - It has 16-bit address bus
   - It has 16-bit data bus
   - It has 16-bit maximum clock frequency of 16MHz
   - All of the above
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answer: All of the above

10) When the microcontroller MSP4302653 receives RESET, then the CPU goes to which of the following memory locations? 1 point
   - FFFF
   - 000
   - 0000
   - 0000
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answer: FFFF