



ECEN 5023-001,001B,740:Special Topics

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Vihanga Bare

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Attempt 1

Written: Jan 28, 2017 1:35 PM - Jan 28, 2017 2:34 PM

Submission View

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Random questions

Question 1**0.6 / 1 point**

Which clock sources can the LETIMER0 use in EM2?

☒ LFXO☐ ULFRCO☐ HFRCO☒ LFRCO☐ HFXO**Question 2****0.6 / 1 point**

Which clock sources can the LETIMER0 use in EM0?

☒ LFXO☒ HERCO☐ ULFRCO☒ LFRCO☒ HFXO**Question 3****0 / 1 point**

Select all the C lines of code that would enable the LFXO oscillator without disturbing any other enabled oscillator.

☒ CMU->OSCENCMD = CMU->OSCENCMD + CMU_OSCENCMD_LFXOEN;

+ doesn't work

☐ CMU->OSCENCMD = CMU_OSCENCMD_LFXOEN;

☒ CMU_OscillatorEnable(cmuOsc_LFXO, true, true);

☒ CMU->OSCENCMD |= LFXOEN;


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Select all the C lines of code that would just disable the LETIMER0 underflow interrupt.

☐ LETIMER0->IEN = ~LETIMER_IEN_UF;

i also got this wrong

☒ LETIMER0_IEN = LETIMER0->IEN & ~LETIMER_IEN_UF;

☒ LETIMER_IntDisable(LETIMER0, LETIMER_IEN_UF);

☒ LETIMER0->IEN &= ~LETIMER_IEN_UF;

Question 6

0 / 1 point

Match the following sleep calls to the appropriate function or interrupt type handler

3 1 A routine to turn off an peripheral

not 100% sure

1. blockSleepMode(EMx);

1 2 Interrupt handler of a "re-occurring" peripheral

2. unblockSleepMode(EMx);

3 1 A call to a peripheral

3. nothing

2 3 Interrupt handler of a "single operation" peripheral

Question 8

0 / 1 point

Complete the C line of code to clear the UF interrupt bit.

LETIMER0->IEN+ = LETIMER_IFC_UF;

will be ...&=~

Question 9

0 / 1 point

Using the below information from the Energy Profiler, order the devices from lowest average energy / current to the most. The below information is for a period, and all of the periods repeat indefinitely.

1 Period of repetition is 4s

- In EM3 at 1uA for 3.95s

- In EM0 at 3.1mA for 0.005s

idk this 1

2 Period of repetition is 3.5s

- In EM3 at 1uA for 3.45s

- In EM0 at 3.1mA for 0.005s

- In EM1 at 1.4mA for 0.045s

- 3 Period of repletion is 0.20S
- In EM2 at 1.4uA for 0.198s
 - In EM2 at 87.0uA for 0.002s

- 4 Period is indefinite
- Continuous at 18uA

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Attempt Score: 4.2 / 10 - 42 %

Overall Grade (highest attempt): 4.2 / 10 - 42 %

Done