

Name: _____ Student #: _____ Signature: _____

Time limit: 60 min. Calculators not allowed. All programming questions relate to the NIOS II processor.

1. (2 marks) Explain the difference between interrupts and polling.
2. (2 mark) What is an interrupt vector table and does the NIOS II processor have one?
3. (5 marks) List (in sequence) the 5 events that occur when an interrupt is generated and acknowledged on the NIOS II processor:
4. (1 mark) What is the name of the subroutine that is executed when an interrupt occurs?
5. (1 mark) The **eret** instruction is used to return from the interrupt "subroutine". What must first be done to ensure that the NIOS II processor returns to the proper instruction?

