

**Discussion Question(s) - Module 3**

Imagine that a motor unit, with its nerve intact, is placed in a solution that is calcium-free (but has the proper ionic strength – don't worry how). Further imagine that the ends of the muscle fibers in the motor unit are held such that length is constant. If the nerve is stimulated and fires an action potential will the muscle fibers contract? Briefly explain. Please **post your response to the Discussion Board by 6 PM on day 4 of the module.**

Rev 0, 8/5/16

Rev 1, 2/7/17 - change right margin

Rev 2, 8/14/17 - minor language change; no change to concept

Rev 3, 8/17/17 - formatting; no change to contents

Rev 4, 7/12/18 - from Fall 2017