ヒト生物学 II 本試験　Muscular System　（スポーツ医科学　能勢　博）

学籍番号＿＿＿＿＿＿＿＿＿＿　氏名＿＿＿＿＿＿＿＿＿＿

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1. Which of the following statements about cross-bridges is false?
a. They are composed of myosin.
(b.) They bind to ATP after they detach from actin.
c. They contain an ATPase
d. They split ATP before they attach to actin.

2. The thick filaments of a muscle fiber are made up of
a. actin
b. troponin
c. fascia
(d.) myosin

3. Which of these is a direct source of energy for muscle contraction?
(a.) ATP
b. creatine phosphate
c. lactic acid
d. glycogen
e. Both a and b are correct.

4. Nervous stimulation of muscles
a. occurs at a neuromuscular junction
b. results in an impulse that travels down the T system
c. causes calcium to be released from expanded regions of the sarcoplasmic reticulum.
(d.) All of these are correct.

5. Which of these energy relationships are mismatched?
a. creatine phosphate – anaerobic
b. cellular respiration – aerobic
c. fermentation – anaerobic
d. oxygen debt – anaerobic
(e.) All of these are properly matched.

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