

For More Questions [Click Here](#)

**1. The functional unit of contractile system in striated muscle is**

- a) myofibril
- b) Cross bridges
- c) Z band
- d) sarcomere**

**2. Which of the following is the contractile protein of a muscle?**

- a) Tubulin
- b) Myosin**
- c) Tubulin
- d) all of these

**3. The contractile protein of skeletal muscle involving ATPase activity is**

- a) actin
- b) myosin**
- c) troponin
- d) tropomyosin

**4. Which of the following is a component of actin filaments of a sarcomere?**

- a) myosin and troponin
- b) troponin and actin
- c) actin and myosin
- d) troponin, tropomyosin and actin**

**5. Muscle fatigue sets in due to non availability of**

- a) Calcium
- b) ATP**
- c) actin binding site
- d) Mg cofactor

**6. Muscles get fatigue due to accumulation of**

- a) Lactic acid**
- b) ATP
- c) Phosphate molecules
- d) Carbon dioxide

**7. Which one of the following sets of ions are necessary in the chemical events for muscle contraction?**

- a)  $\text{Na}^+$  and  $\text{K}^+$
- b)  $\text{Ca}^+$  and  $\text{Mg}^{++}$  ions**
- c)  $\text{Na}^+$  and  $\text{Ca}^{++}$  ions
- d)  $\text{Na}^+$  and  $\text{Mg}^{++}$  ions

**8. Light band has which of the following filament protein?**

- a) Myosin
- b) Actin**
- c) Myosin and actin
- d) None of these

**9. Upon stimulation of skeletal muscles calcium is immediately made available for binding to troponin from**

- a) blood
- b) sarcoplasmic reticulum**
- c) lymph
- d) bone

**10. What is sarcomere?**

- a) Part between two H line
- b) Part between two A line
- c) Part between two Z line**
- d) Part between two I band