**Chapter 9 Quiz 1**

1. Which of the following is NOT a major function of muscle?
   1. movement
   2. mineral storage
   3. maintenance of posture
   4. generation of heat
   5. joint stabilization
2. Fascicles are surrounded by a sheath of connective tissue called
   1. perimysium
   2. epimysium
   3. mesomysium
   4. endomysium
   5. periosteum
3. The immovable attachment of a muscle is its
   1. origin
   2. insertion
   3. belly
   4. aponeurosis
   5. sarcomere
4. In direct attachment the
   1. perimysium of the muscle fuses to the periosteum
   2. endosteum of the muscle fuses to the epimysium
   3. epimysium extends as an aponeurosis which fuses to the periosteum
   4. epimysium of the muscle fuses to the periosteum
   5. epimysium extends as a tendon which fuses to the periosteum
5. The plasma membrane surface of a muscle fiber is called its
   1. axolemma
   2. endoplasmic reticulum
   3. neurolemma
   4. sarcolemma
   5. endomysium
6. In skeletal muscle, thick filaments
   1. do not overlap with thin filament
   2. are not found in the H zone
   3. extend the entire length of the I band
   4. run from Z line to Z line
7. In skeletal muscle, thin filaments are composed of
   1. myosin, troponin, and tropomyosin
   2. myosin only
   3. myosin and actin only
   4. actin only
   5. actin, troponin, and tropomyosin
8. Troponin has a binding site for
   1. thick filaments
   2. potassium ions
   3. sodium ions
   4. calcium ions
   5. myosin
9. In skeletal muscle, T tubules are found at the
   1. Z line
   2. M line
   3. A-Z junction
   4. H-I junction
   5. A-I junction
10. The sarcoplasmic reticulum stores
    1. calcium ions
    2. sodium ions
    3. potassium ions
    4. phosphorus ions
    5. acetylcholine
11. The binding of acetylcholine to receptors on the sarcolemma results in
    1. opening of voltage regulated Na+ channels
    2. closing of chemically regulated Na+ channels
    3. opening of chemically regulated Na+ channels
    4. opening of voltage regulated K+ channels
    5. closing of voltage regulated K+ channels
12. The period of time during which a muscle fiber cannot respond to another stimulus is its
    1. relaxation period
    2. refractory period
    3. latent period
    4. contraction period
    5. interphasic period
13. Unlike skeletal muscle, in smooth muscle calcium ions bind to
    1. actin
    2. tropomyosin
    3. troponin
    4. calmodulin
    5. myosin
14. What is the shape of smooth muscle fibers?
    1. Squamous
    2. Cylindrical
    3. Cuboidal
    4. Spindle
    5. Branched
15. A motor neuron along with the skeletal muscle fibers it innervated is called a
    1. myoneuronal junction
    2. motor unit
    3. myotome
    4. fascicle
    5. contraction unit

Answer key:

1. B 2.A 3.A 4.D 5.D 6.C 7.E

8. D 9.E 10.A 11.B 12.B 13.D 14.D

15. B