

29. Crenation (cell shrinking) occurs when a blood cell is placed in a(n) ..... solution.

- A. isotonic
- B. hypertonic
- C. hypotonic
- D. merotonic

30. The sarcolemma is the:

- A. storage site for calcium ions in muscle fibers
- B. plasma membrane of a muscle fiber
- C. compound that binds oxygen for use in slow oxidative muscle cells
- D. separation between sarcomeres in a muscle fiber

31. Calcium ions bind to the ..... molecule in skeletal muscle cells.

- A. tropomyosin
- B. troponin
- C. actin
- D. myosin

32. Which of the following statements regarding a resting neuron is FALSE?

- A. Its inside is negative relative to its outside.
- B. The cytoplasm contains more sodium and less potassium than does the extracellular fluid.
- C. The membrane is more permeable to potassium than to sodium.
- D. A) and C)

33. One functional unit of a skeletal muscle is:

- A. a sarcomere
- B. a myofilament
- C. a myofibril
- D. the sarcoplasmic reticulum

34. In a skeletal muscle fiber, which of the following best describes the composition of the structure known as a triad?

- A. actin, troponin and tropomyosin
- B. sarcolemma, sarcoplasm and sarcoplasmic reticulum
- C. terminal cisterna, transverse tubule and terminal cisterna
- D. A band, I band and H band

35. The threshold of the neuron is the:

- A. voltage at which the inflow of sodium ions causes the spike of an action potential
- B. total number of sodium ions that enters the cell before the sodium inactivation gates close
- C. total amount of neurotransmitter it takes to cause an action potential
- D. voltage across the resting cell membrane