

Student's name:

ID number:

All of the following are functions of muscle EXCEPT:

- A) Movement.
- B) Posture maintenance.
- C) Production of body heat.
- D) Body support.
- E) Protection

Which of the following muscles is voluntary?

- A) The muscle of the stomach
- B) The muscle in the wall of the heart.
- C) The muscle in the wall of the urinary bladder
- D) The muscle that extends the arm at the elbow

The dense layer of connective tissue that surround an entire skeletal muscle is called the _____, while the delicate connective tissue that directly surrounds each muscle fiber is called the _____.

- A) Epimysium.
- B) Fascicle.
- C) Tendon.
- D) Endomysium.
- E) Perimysium.

The functional unit of a skeletal muscle fiber is the:

- A) Sarcolemma.
- B) Myofibril.
- C) Sarcoplasmic reticulum.
- D) Sarcomere.
- E) Troponin

After Ach attaches to it's receptors on the sarcolemma, the next step is:

- A) ATP is hydrolyzed
- B) Sodium channels open
- C) Calcium binds to regulatory proteins on the thin filaments
- D) Contraction occurs

The hormone erythropoietin stimulates red blood cell production. Where in the body is erythropoietin produced?

- A) Spleen
- B) Kidney
- C) Liver
- D) Thyroid

Hematopoiesis does NOT take place in which of these areas?

- A) Sternum
- B) Ribs
- C) Pelvis
- D) Distal femur
- E) Vertebrae

These leukocytes produce enzymes that reduce the inflammatory response and are associated with allergies or parasitic infections.

- A) Basophils
- B) Eosinophils
- C) Lymphocytes
- D) Monocytes
- E) Neutrophils

Arrange the following formed elements in the correct order from most numerous

to least numerous in normal blood: 1. Erythrocytes 2. Leukocytes 3. Platelets

- A) 1,2,3
- B) 1,3,2
- C) 2,1,3
- D) 2,3,1
- E) 3,1,2

Which blood component plays the largest role in maintaining the osmotic pressure of blood?

- A) Albumin
- B) Carbon dioxide
- C) White blood cells
- D) Globulin

