

Test 3

Module 5 & 6

Define the terms:

Muscle-

Involuntary-

Voluntary-

Striated-

Smooth-

Cardiac-

Sarcomere -

Actin -

Myosin -

Myofibril -

Muscle Contraction -

A-band -

I-band -

Z-line -

ATP -

Calcium –

Sprain-

Strain-

Cramp-

During muscle contraction, what roles do heart rate, oxygen, carbon dioxide and heat play in maintaining homeostasis?

What percent of a person's weight is due to muscle?

How many different muscles are located in human body?

All people have the same number of muscle cells. True or False?

Why is a high protein diet needed by body builders?

Muscles are attached to bones by:

How are glycogen and oxygen delivered to muscle cells?

Strong connect tissue that connects bones is called:

Describe the following injuries involving muscles:

a. sprain-

b. muscle strain-

c. cramp-

Label the muscles:

(NEED THE MUSCLE DIAGRAM HERE)

Define the terms:

Central Nervous System –

Brain -

Spinal Cord –

Peripheral Nervous System -

Nerve

Neuron -

Dendrite -

Axon -

Ganglia -

Resting Membrane Potential -

Action Potential -

Myelin Sheath -

Nodes of Ranvier -

Concentration Gradient -

Synaptic Vesicles -

Synaptic Cleft -

Brain -

Cerebrum -

Cerebellum -

Brain Stem -

Pons -

Thalamus -

Hypothalamus –

Cranial Vault -

Vertebral Column -

Foramen Magnum –

Describe the parts of the neuron.

Name the three kinds of neurons and describe what job they perform.

What is a synapse and how do nerve impulses pass across a synapse?

What is a reflex action and how is this a good test of the nervous system?

Why is the surface of the brain covered with folds and grooves?

Why is sleep important to maintaining a healthy body?

How is comparing the human brain to a computer an unfair comparison for the computer?

Why does the brain require 20% of the energy produced by the body?

What are the five senses that supply the brain with information?

Define the functions of these parts:

- a. cerebellum
- b. parietal lobe
- c. temporal lobe
- d. frontal lobe
- e. occipital lobe
- f. brain stem
- g. corpus callosum

Give a brief description and the cause of each of these disorders and injuries:

Head Injuries Category:

concussion

brain contusion

skull fracture

hematoma

Disorders:

stroke

dementia

Parkinson's Disease

Migraines

Epilepsy

Bell's Palsy

Multiple Sclerosis

What is the function of the central nervous system?

The central nervous system consists of the _____ and the _____.

12. The brain and spinal cord are bathed and protected by

_____.

Is the following sentence true or false?

The left hemisphere of the cerebrum controls the body's left side.

21. Is the following sentence true or false?

The outer surface of the cerebrum is called the cerebral cortex.

22. What is gray matter, and where is it found?

23. The three regions of the brain stem are the _____, _____ and the

_____.

