BIOL 221 A&P L, Final Exam

Key ID B

Name ______________

Make sure you put your name and Key ID (A, B, or C) on the answer sheet. Read each question carefully! If you do not understand a question do not hesitate to ask for help. Good Luck!

1) Joe is sitting at his desk studying anatomy and physiology (his favorite subject) when he decides to take a drink from the Red Bull can sitting on the desk. When Joe reaches for the can, upper motor neurons in the ___ are activated.
   A) precentral gyrus.
   B) lateral gray horn.
   C) postcentral gyrus.
   D) posterior gray horn.
   E) none of the above.

2) As Joe reaches for the can, action potentials are propagated down the axon of the lower motor neuron to the synaptic knob. When the action potential reaches the synaptic knob:
   A) voltage gated calcium channels open and calcium enters the synaptic knob from the extracellular fluid.
   B) voltage gated sodium channels open and sodium leaves the synaptic knob and enters the extracellular fluid.
   C) voltage gated calcium channels open and calcium enters the synaptic knob from the mitochondria.
   D) voltage gated potassium channels open and potassium enters the synaptic knob from the extracellular fluid.
   E) voltage gated calcium channels open and calcium enters the synaptic knob from the terminal cisternae.

3) The neurotransmitter acetylcholine is released into the neuromuscular junction. Acetylcholine will then bind ___ receptors on the ___.
   A) nicotinic, motor end plate
   B) muscarinic, T-tubule
   C) nicotinic, synaptic knob
   D) nicotinic, T-tubule
   E) muscarinic, motor end plate

4) Once acetylcholine binds its receptors on skeletal muscle, ___ enters the sarcoplasm from the ___.
   A) sodium, terminal cisternae
   B) calcium, extracellular fluid
   C) potassium, T-tubule
   D) sodium, extracellular fluid
   E) calcium, T-tubule

5) This process depolarizes the skeletal muscle cell membrane and an action potential travels.
   A) in one direction along the sarcolemma and down the sarcoplasmic reticulum to the terminal cisternae.
   B) in all directions along the sarcolemma and down the sarcoplasmic reticulum to the terminal cisternae.
   C) in all directions along the sarcolemma and down T-tubules to the M-line.
   D) in all directions along the sarcolemma and down T-tubules to the terminal cisternae.
   E) in one direction along the sarcolemma and down T-tubules to the terminal cisternae.
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British Medical Journal- 1902

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