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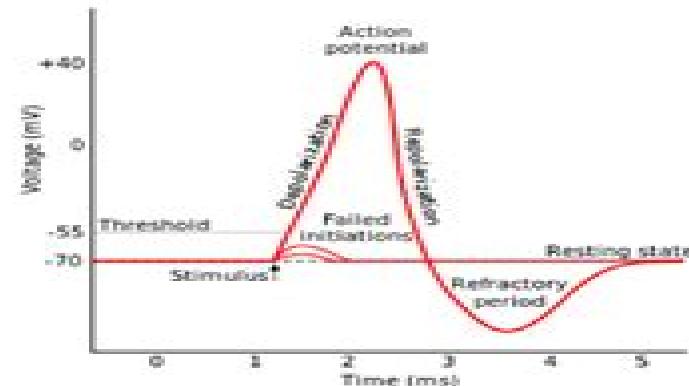
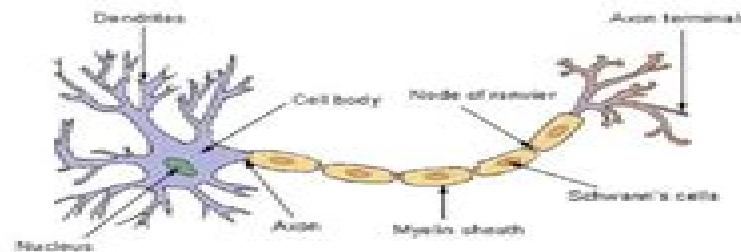
20 Multiple choice

**Reflex:**

- Explain a reflex arc, be able to predict if something would get interrupted in a reflex arc what the results would be.
- Explain how a reflex arc is different than processing other stimuli.
  - a reflex arc does not travel all the way to the brain for processing.
  - reflex arcs are the same in all humans; we all react the same way

**Neuron:**

- Know the directionality of a neuron transmitting information.
  - the neuron transmits info from its dendrites on the soma, down the axon (saltatory conduction), to the synaptic terminal and to the synapse
- Recognize the structure of the neuron.
- Explain how a neuron at rest has  $-70$  mV.
  - the neuron has more sodium ions outside the cell, has more potassium ions inside the cell (salty banana)
  - some sodium ions leak into the cell and some potassium ions leak out through ion channels, but sodium potassium pump helps to maintain the resting potential by actively transporting 3 sodiums out and 2 potassiums back in
- Explain what occurs in an excitatory and inhibitory nerve impulse.
  - Inhibitory:**
    - hyperpolarization
    - opens  $K^+$  ion channels
  - Excitatory:**
    - depolarization
    - opens  $Na^+$  ion channels
  - Inhibitory and excitatory impulses can cancel each other out
- Explain what would happen if there was damage to the  $K^+$  channels,  $Na^+$  channels or  $K^+$ - $Na^+$  pump.
  - Damage to  $K^+$  channels
- Explain the graph of an excitatory nerve impulse. Know what occurs at each point.
  - resting potential: everything is normal at  $-70$  mV. Sodium potassium pump is taking out 3 sodium, bringing in 2 potassium. channels are closed. Outside of cell is more positive than inside of cell.
  - stimulus: must reach threshold of  $-55$  mV for an action potential
  - depolarization: sodium channels open, sodium flows in, membrane voltage rises
  - repolarization: potassium channels open, potassium flows in, sodium channels inactivate, membrane voltage falls
  - refractory period/hyperpolarization: the membrane voltage falls below resting potential, potassium channels close slowly, sodium channels close. Sodium potassium pump reestablishes resting potential.
- Explain how neurotransmitters are released from the synaptic terminal.
  - the action potential reaches terminal, causing influx of calcium from sarcoplasmic reticulum
  - synaptic vesicles fuse with the synaptic terminal membrane, releasing neurotransmitters
- Know: depolarization, repolarization and hyperpolarization/undershoot

**Neurotransmitters:**

- Explain what occurs when the receptor for a neurotransmitter is blocked.
  - the reaction cannot take place
  - buildup of neurotransmitters
- Explain how neurotransmitters travel across the synapse.
  - depolarization arrives at the synaptic terminal
  - the  $Ca^{2+}$  gated ion channels open, influx of calcium into neuron
  - calcium causes exocytosis of synaptic vesicles
  - the vesicles release neurotransmitters into the synapse
- You will receive description of various neurotransmitter functions and asked to make a prediction what would happen if they are inhibited, mimicked, or degraded to early etcetera. These are very application based.
  - Acetylcholine**
    - Transmits signal to skeletal muscle
    - Muscle stimulation
    - Memory formation
    - Learning

# 48 Nervous System Ap Biology Guide Answers

**Daniel F McAuley**

## 48 Nervous System Ap Biology Guide Answers:

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