

Format:

20 Multiple choice

Reflex:

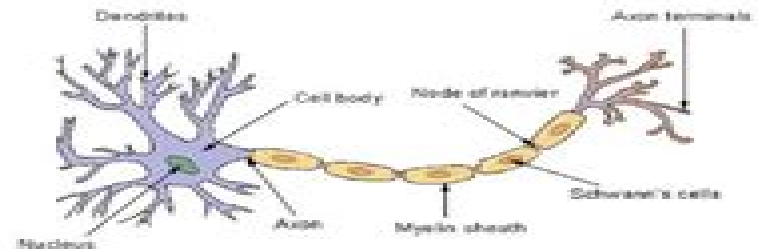
- Explain a reflex arc, be able to predict if something would get interrupted in a reflex arc what the results would be.
- Explain how a reflex arc is different than processing other stimuli.
 - a reflex arc does not travel all the way to the brain for processing
 - reflex arcs are the same in all humans; 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 ecetera. These are very application based.
 - Acetylcholine
 - Transmits signal to skeletal muscle
 - Muscle stimulation
 - Memory formation
 - Learning



Questions On The Nervous System Biology Corners

S Ashworth



Questions On The Nervous System Biology Corners:

The Enigmatic Realm of **Questions On The Nervous System Biology Corners**: Unleashing the Language is Inner Magic

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