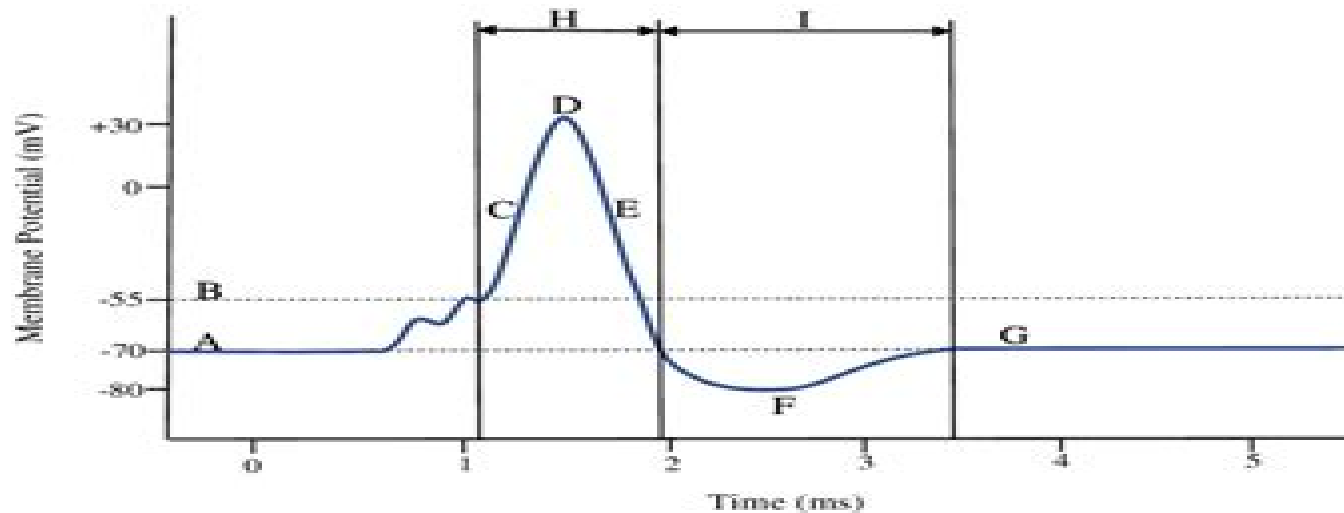


The Action Potential

Label the significant membrane potentials and phases of the action potential in a neuron. Indicate which gates are open/closed as well as the direction of the net movement of sodium and potassium ions across the cell membrane for A-G.



1. What type of summation is shown for the graded potentials in the above graph?
2. What happens when the threshold potential is reached?
3. At approximately +30 mV on the graph, what happens in between the depolarization and repolarization phases?
4. What mechanism is responsible for the occurrence of the hyperpolarization phase?
5. How is the resting membrane potential of the neuron restored?
6. Is it possible to generate a second action potential during either refractory period? If so, which one and how?

Action Potential Worksheet Answers

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