- 1-Which of the following matched pairs are NOT consistent with resting membrane potential? Select one:
- a. Sodium and Potassium leakage channels More potassium diffuse out than sodium diffuse in
- b. The Interior of the cell More negative compared to the autside
- c. The action of sodium Potassium pump Restore the resting membrane potential
- d. Sodium and Potassium leakage channels Active transport
- e. Sodium Potassium pump Requires 40°

of body energy

answer:D

2-which one is NOT correct regardin action potential? Select one:

- a. Short events in which membrane potential not dramatically changes
- b. Short lasting reversal in the electrical polarity of the excitable cell
- c. Only muscle and nerve cells can exhibit a reversal in electrical polarity
- d. Starting point where it goes for being positive to negative outside
- e. Starting point acts like a signal that can be conducting along 1he nerve and muscle fibers answer: A
- 3-One of the following factors is NOT consistent with resting membrane potential? Select one:
- A. Pumps of Sodium and Potassium
- B. Gibbs and Donnan Polential
- c. Leakage Sodium and Potassium channels
- d. Ligand sodium channels

answer: D

- 4-which of the following matched pairs are not correct Select one:
- a. Supra-threshold Stimulate more than action potential in nerve bundle
- b. Voltage gated sodium channels Closed, Open, Inactivated conformation
- c. Voltage gated sodium channels Closed and inactivated states are ion impermeable d.

Activation/deactivation of Na+ voltage gated channels - The activation gates open e. Inactivation af Na+ voltage gated channels - Open the inactivation gates

answer: E

5-Which of the following regarding the myelinated nerve fiber and 1he propagation along the myelinated fiber is NOT correct? Select one:

- a. The action potential is 100m/sec in thickest myelinated nerve cell
- b. The myelin sheath would decrease the myelinated nerve area thus decrease the velocity of action potential
- c. Oligodendrocytes in CNS
- d. Shawn cells are motor and sensory nerves in the peripheral CNS
- e. The action potential alang the myelinated nerve fiber is only accurring at the nodes of Ranvier

answer: B

6-Which of the following matched pairs are NOT correct? Select one:

- a. Depolarization Opening of voltage gated sodium channels
- b. Repolarization Closure of sodium and opening of K+ voltage gated channels



- c. Hyperpolarization Voltage gated K+ Channels remains open after the potential reaches resting level
- d. Threshold Maximum point where the nerve fiber is enough to be stimulated
- e. Subthreshold Opening enough voltage gated Na+ channels to start action potential answer : E