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Section- 8.1- The Nervous System **Regular Anatomy**

from sensory receptors or other neurons.

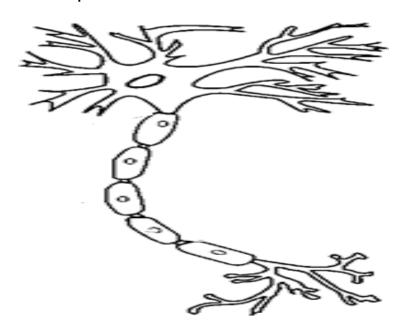
Nervous Tissue

Match the given terms of the parts of a neuron to its function or description.

1.	Axon	A.	Receives signals from sensory receptors or other neuro
2.	Node of Ranvier	B.	Conducts action potentials (nerve impulses).
3.	Axon terminal	C.	A white covering that surrounds and insulates an axon.
4.	Cell body	D.	Contains the nucleus and other organelles.
5.	Dendrite	E.	The end of an axon.
6.	Myelin sheath	F.	Gaps between the myelin sheath of an axon.

Using the list below, color and label the different parts of a neuron.

O	Axon
0	Node of Ranvier
0	Axon terminal
0	Cell body
0	Dendrite
0	Myelin sheath



- 7. The type of cell of the nervous system that transmits action potentials is called a _____
- 8. The type of cell of the nervous system that supports and nourishes neurons are called ______.

Classify each type of neuron by its function.

9.	IIILEITIEUIOII
10.	Motor neuron
11.	Sensory neuron

- A. Transmits action potentials from the peripheral nervous system to the central nervous system.
- B. Transmits action potentials between motor neurons and sensory neurons.
- C. Transmits action potentials from the central nervous system to the peripheral nervous system.

Using the list below, write the structural classification of each of the given neurons.



Nerve Impulses

Match the phase of an action potential to its description.

12.	Depolarization
13.	Repolarization
14.	Resting potential
15.	Action potential

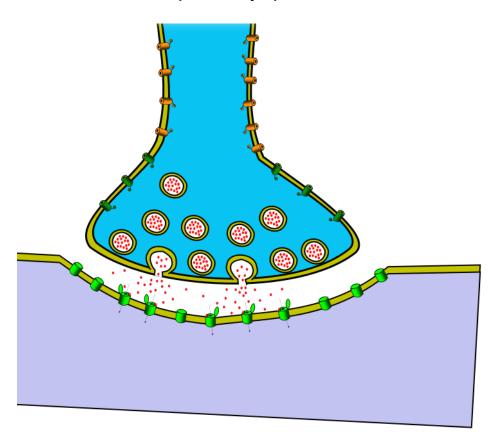
- A. Difference in electrical charge between the inside and outsideof the membrane when no impuse is being conducted.
- B. Inside of membrane becomes more (+) compared to outside (Na ions move inward)
- C. Inside of membrane becomes more (-) compared to outside (K ions move outward)
- D. Change in polarity across an axon's membrane

Match the parts of a synapse with its description or function.

16.	Neurotransmitter
17.	Postsynaptic membrane
18.	Presynaptic membrane
19.	Synaptic cleft
20.	Synaptic vesicle
21.	Excitatory neurotransmitter
22.	Inhibitory neurotransmitter

- A. Decreases membrane permeability to Na ions, reducing the chance that an impulse will occur
- B. Stores neurotransmitter
- C. Gap between presynaptic membrane and postsynaptic membrane.
- D. Terminal end of the first neuron in a synapse
- E. Increases membrane permeability to Na ions and triggers nerve impulse
- F. Chemical susbstance released by a neuron to act on another cell
- G. Second neuron in a synapse

Using the list below, color and label the different parts of a synapse.



- O Action potential (draw direction with arrows)
- O Axon
- Presynaptic membrane

- O Neurotransmitter
 - Postsynaptic membrane
- Synaptic cleft
- Synaptic vesicle