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## ***Questions Bank***

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***Lect. 1 : Introduction to Physiology***

Q1/ Define the physiology, cytoplasm , Neurotransmitters , osmosis , diffusion , action potential .

Q2 / Enumerate components of cell and explain the function of each one .

Q3 / Enumerate functions of proteins in cell membrane .

Q4 / Enumerate functions of carbohydrate in cell membrane .

Q5 / explain in details mechanism of action potential with drawing .

Q6 / Fill in the blanks :

1-Endocytosis : -----

2-Phagocytosis : .....

3-Pinocytosis : .....

4-Exocytosis : .....

Q7 / Enumerate cells that make up Nervous System and explain functions of ( any one ) ?

***Lect. 2 The autonomic nervous system (ANS)***

Q1/Compare between Sympathetic and Parasympathetic Divisions.

Q2 / Fill in the blanks :

1-Basis on anatomical origin of sympathetic nervous system called ----- division, while parasympathetic called ----- division .

2-Neurotransmitters in Sympathetic Nervous System in preganglionic is ----- and in post ganglionic is -----, while Neurotransmitters in parasympathetic System in preganglionic is ----- and in post ganglionic is ----- .

### ***Lect. 3: muscle***

Q1 / explain in details mechanism of muscle contraction .

Q2/ Put (true) of (false ) in front of each item and correct the wrong phrase

- 1-Nebulin protein Connects myosin to the Z-lines.
- 2-ATP-ase is located at the ATP binding site on actin protein.
- 3-binding site for calcium located on Tropomyosin.
- 4-Calmodulin protein contribute in the contraction of skeletal muscle .

Q3/ Enumerate all proteins that contribute in contraction of skeletal muscle and explain functions of it .

### **Lect.4: Cerebrospinal Fluid and lymph**

**Q1 \ fill in the blanks :**

- 1-Cerebrospinal Fluid make by ----- and stored in -----.
- 2-Functions of Cerebrospinal Fluid are ----- and -----.
- 3-Lymphatic tissues derived from -----.
- 4----- are special lymphatic vessels located in the lining of the small intestine and absorb fats.

Q2 \ Define a lymph and explain functions of lymphatic system in details .

Q3\ enumerate lymphoid organs and explain functions of each one