

Multiple Choice Questions

Time: 48 hours

Class Code. _____15946_____

Name/Class Rollno: ___Majid iqbal

15946_____

Note:

- Attempt all questions from this section. Select the best answer from given choices.
- Use Blue / Black Ink only. Do not use red color.
- Tick or encircle only one option in each given question.

*It's an open book Conceptual Assignment paper.
Time to Use your brain now.*

1. A short Gap in the myelin sheath around a nerve fiber is called

- a) Dendrite
- b) Axon terminal
- c) Node of Ranvier
- d) None of these

2. The maximum amount of carbon dioxide in the human body is transported as: _____

- a) Bicarbonate
- b) Carbide
- c) Amylase
- d) None of the above

3. The lungs are protected by _____

- a) Ribcage
- b) Sternum
- c) Backbone
- d) All of the above

4. The three different cells found in the stomach

- a) Chief cells, renal cells, nephron
- b) Renal cells, mucous cells, hepatic cells
- c) Nephrons, hepatic cells, parietal cells
- d) Chief cells, parietal cells, mucous cells

5. For action potential to occur,

- a) The stimulus should reach or exceed threshold
- b) Na⁺ influx must exceed K⁺ efflux
- c) Both A & B

d) None of these

6. During rising phase of action potential,

- a) Voltage gated Na⁺ channels open
- b) Voltage gated K⁺ channels open
- c) Voltage gated Na⁺ channels close
- d) Voltage gated K⁺ channel close

Stay home, stay Safe

7. The movement of an esophagus to help the food down the GI tract _____

- a) Mastication
- b) Emulsification
- c) Peristalses
- d) Ejection

8. Simple diffusion is _____.

- a) Movement of molecules against the conc. gradient

- b) Movement of molecules down the conc. gradient
- c) Both A & B
- d) None of these
9. 97% of Oxygen is carried in blood from lungs is

- a) Bound to Sulphate ion
- b) Bound to Hemoglobin
- c) Dissolved in plasma

- d) All of these
10. Intrinsic factor secreted in stomach helps in
- a) Absorption of vitamin D
- b) Absorption of vitamin K
- c) Absorption of vitamin B12
- d) Removal of vitamin B12

Midterm Assignment(2020)
Course Title: Basic Physiology (DT- 2nd) Instructor: Dr. Irfan Ali Khan

Time: 72 Hours

Section 2

Name:Majid iqbal.....

Class/Roll.no15946.....

Note:

- Attempt all questions from this section.
- Use only Blue / Black Ink other than diagrams
- Answer Briefly and to the point, avoid un-necessary details

1. Draw and Label the Action Potential in a large myelinated nerve fiber. Which ion channels are involved in its different stages?

Key points:

Draw

Label

Ion Channels

Depolarization

Repolarization

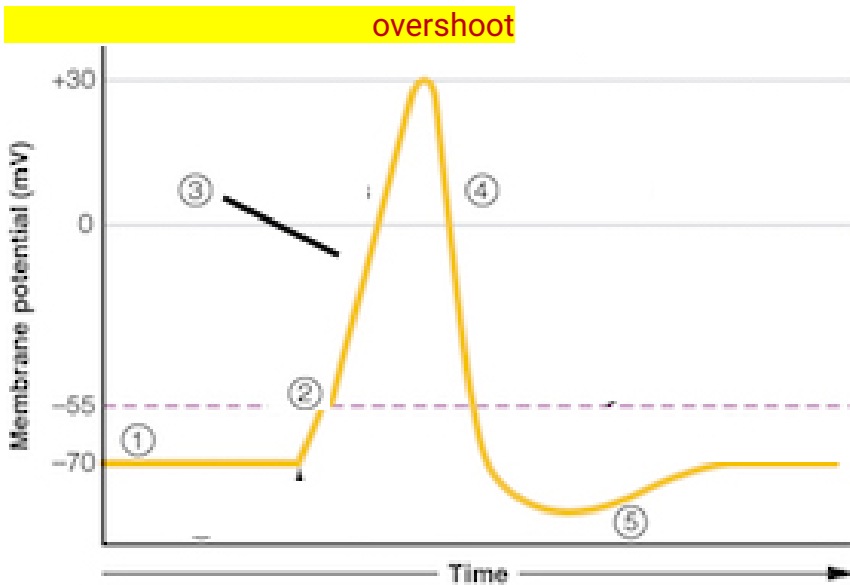
Ans. 1. Resting potential.

2. threshold

3. Depolarization (V. Rise)

4. repolarization(voltage falls)

5. hyperpolarization(refractory period)



2. What is the role of oxygen, carbon dioxide and hydrogen ions in control of respiration? Marks 10

Ans.

Respiratory systems.

The human Respir system is one of the most vital organ systems of the body we breath about 16000 to 29000 per day which exchange about 11000 liter of air with atmosphere.

in this process the oxygen of the atmosphere is delivered to the human body which is then utilized by all the tissues and the carbon dioxide which is produced by the human body is exported to the lungs and then exchange with the atmospheric air.

Role of oxygen.

The most important function of breathing is supplying oxygen to the body and the removal of its waste product. of CO_2 under water most conditions the partial pressure

of CO_2 or concentration of CO_2 control the respiratory rate.

Role of CO_2 .

when it combines with the water it form carbonic acid making the blood acidic so CO_2 in the blood stream lower the pH of blood breathing rate increase and kidney bicarbonate production in order of hydrogen.

Role of hydrogen.

Excess hydrogen in blood act directly on the respiratory Centre cause increases respiration blood flow through these bodies is extreme so the percentage of O_2 removed from the blood.