

Multiple Choice Questions

Time: 48 hours

Class Code. 15930

Name: Farman Ullah

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
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

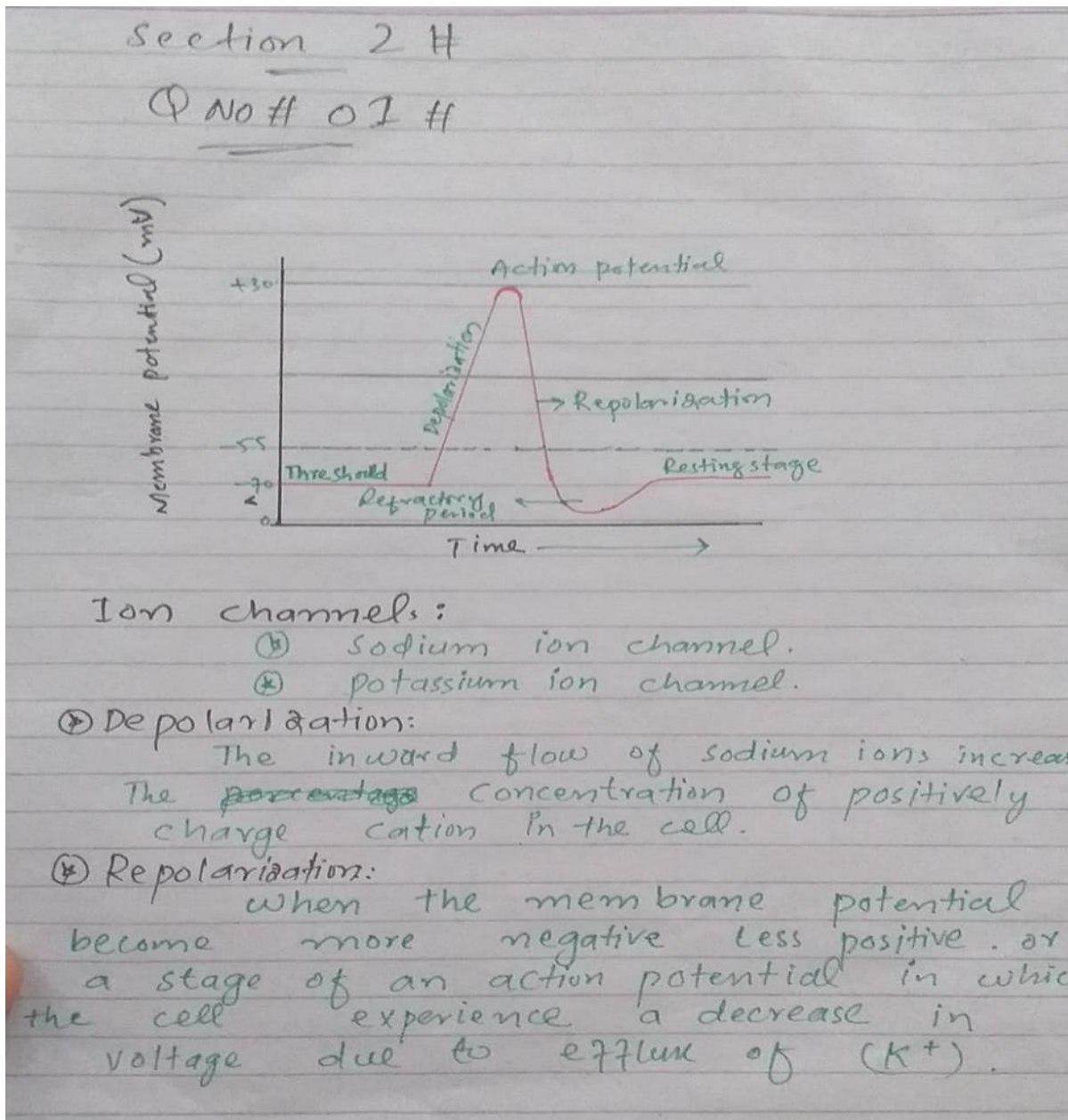
NName : Farman ullah

Class/Roll.no .15930

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? Answer:



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

Answer:

Role of Oxygen:

Cellular **respiration** is the process cells use to make energy. Cells in our body combine glucose and **oxygen** to make ATP and carbon dioxide.

... **Oxygen** combines with the electrons and two hydrogen ions to make water. Lastly, the hydrogen ions flow through ATP synthase to make ATP

Role of carbon dioxide:

During the process of **cellular respiration**, **carbon dioxide** is given off as a waste product. This **carbon dioxide** can be used by photosynthesizing cells to form new carbohydrates. Also in the process of **cellular respiration**, oxygen gas is required to serve as an acceptor of electrons.

Role of Hydrogen:

Oxygen combines with the electrons and two **hydrogen** ions to make water. Lastly, the **hydrogen** ions flow through ATP synthase to make ATP.