

Homework Check Quiz - #2

(3)

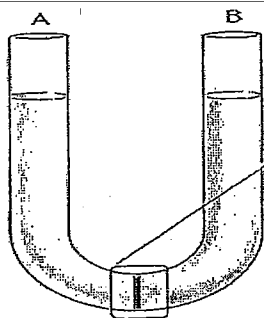
NAME : \_\_\_\_\_

BLOCK : \_\_\_\_\_

Total = \_\_\_\_\_ /6

ANSWERS

1. A U-Tube is set up so that the following solutions are initially set up.



On Side A-	92% water	6 % Hemoglobin	2% Glucose
On Side B-	84 % water	10 % Hemoglobin	6% Glucose

What will eventually be established if the two solutions are separated by a differentially permeable membrane. The membrane is permeable to water and glucose, but it is impermeable to Hemoglobin. The final concentrations on side A will be....

1. \_\_\_\_\_

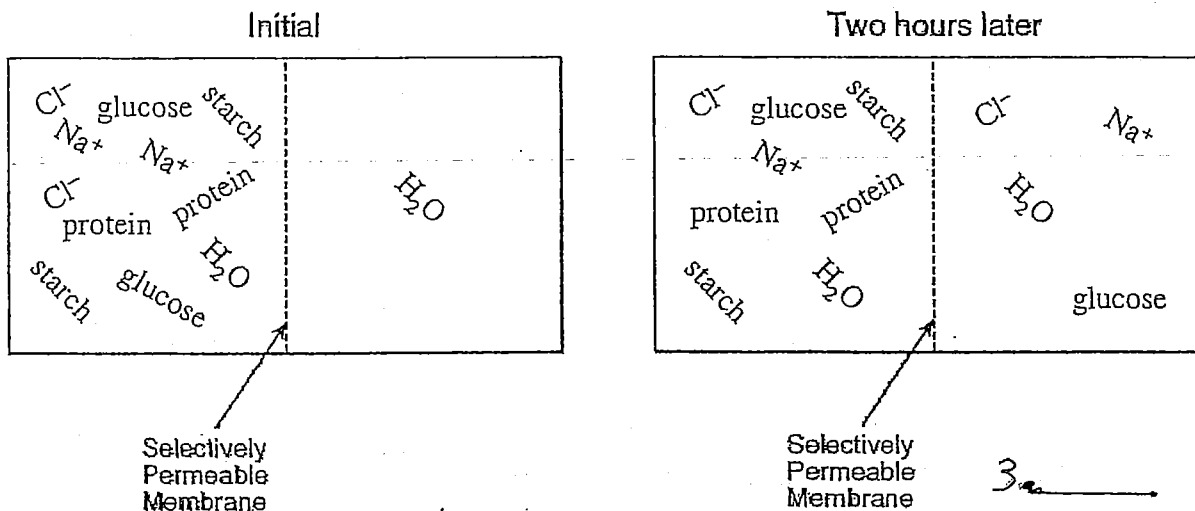
- A) Glucose 3% , Water 88% and Hemoglobin % will have gone down.
- B) Glucose 4%, Water 88 % and Hemoglobin % will have gone up
- C) Glucose 4%, Water 88 % and the Hemoglobin % will stay the same.
- D) Glucose 2%, Water 88% and Hemoglobin % will have gone up.

2. \_\_\_\_\_

2. Osmosis and facilitated transport are similar in that they both move molecules:

- A. without using ATP.
- B. using carrier proteins.
- C. against a concentration gradient.
- D. along the endoplasmic reticulum.

3 The diagrams illustrate that the membrane selects according to the



3. \_\_\_\_\_

- A. size of the molecules.
- B. temperature of the solution.
- C. concentration of the molecules.
- D. electronic charge of the molecules.

4 .. Which of the following is NOT a type of active transport?

- A) Active Carrier Transport
- B) Pinocytosis
- C) Phagocytosis
- D) Facilitated Transport
- E) All of the above are classified as being methods of "Active Transport"

4.5 \_\_\_\_\_

5. The ingestion of large cell fragments or even **whole cells** such as bacteria is best known as...

- A) Active Carrier Transport
- B) Pinocytosis
- C) Phagocytosis
- D) Facilitated Transport
- E) All of the above are classified as being methods of "Active Transport"

5 \_\_\_\_\_

6. The diagram below shows a cellular modification that is used to keep up a **high** surface area : volume ratio. What name is given to these membrane folds?



- A) Villi
- B) Microvilli
- C) Cilia
- D) Flagella

6 \_\_\_\_\_

ANSWER