**Daily Formative**

***Practice Questions, The Cell Membrane***

1. The cell membrane of the red blood cell will allow water, oxygen, and carbon dioxide to pass through. Because other substances are blocked from entering, this membrane is called

A) Perforated

B) Semi-permeable

C) Non-conductive

D) Permeable

1. Which statement regarding the functioning of the cell membrane of all organisms is **not** correct?

A) The cell membrane forms a boundary that separates the cellular contents from the outside environment.

B) The cell membrane is capable of receiving and recognizing chemical signals.

C) The cell membrane forms a barrier that keeps all substances that might harm the cell from entering the cell.

D) The cell membrane controls the movement of molecules into and out of the cell.

3. In a lipid bilayer, --- fatty acid tails face each other within the bilayer and form a region that **excludes** water.

A) hypertonic

B) hypotonic

C) hydrophilic

D) hydrophobic

4. Which component of a cell membrane is likely to function as a receptor in cell to cell signaling?

|  |  |
| --- | --- |
| A) | [lipids](http://www.biology.arizona.edu/cell_bio/problem_sets/membranes/06t.html) |
| B) | [proteins](http://www.biology.arizona.edu/cell_bio/problem_sets/membranes/06c.html) |
| C) | [carbohydrates](http://www.biology.arizona.edu/cell_bio/problem_sets/membranes/06t.html) |
| D) | [cholesterol](http://www.biology.arizona.edu/cell_bio/problem_sets/membranes/06t.html) |

5. What type of molecules interact with water, polar OR nonpolar?

6. Where does a cell membrane come in contact with water?

A) Outside the cell

B) Inside the cell

C) Both inside and outside the cell

D) Between the lipid bilayers

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