

Test – Lesson 3 – The Cell Membrane – Answer Key

1. Cell membranes _____.

- (A) have a layer of non-polar molecules along the inside and outside of the cell membrane
- (B) have a polar middle layer
- (C) consist of two layers of non-polar molecules and no polar layers
- (D) are penetrated with pores that guard what can and cannot enter the cell**

2. Choose the best answer below:

Cell membranes are made of _____.

- (A) a layer of non-polar molecules coated on the outside with a layer of polar molecules
- (B) a layer of non-polar molecules coated on the inside with a layer of polar molecules
- (C) a layer of non-polar molecules coated on the inside and outside with a layer of polar molecules**
- (D) a layer of polar molecules coated on the inside with a layer of non-polar molecules

3. The polar molecules making up the cell membrane are primarily _____.

- (A) phospholipids**
- (B) carbohydrates
- (C) hydrocarbons
- (D) proteins

4. Polar molecules cannot penetrate a cell membrane primarily because _____.

- (A) of their size
- (B) they do not dissolve in the middle non-polar layer of the cell membrane**
- (C) of their strong polar attraction for other polar molecules outside the cell
- (D) they are not electrically neutral

5. Choose the statement that is not true.

Cell membranes _____.

- (A) allow cells to be waterproof even though they live in a watery environment
- (B) cannot block the entry of polar molecules into the cell**
- (C) prevent vital molecules from escaping the interior of the cell
- (D) limit the entry of nutrients into the cell