Importance of Polarity in the Body – Multiple Choice Questions

1) These substances can generally pass through cell membranes without help from proteins.
a) polar substances
b) non-polar substances

2) These substances can pass through cell membranes but only with the help of membrane channels/carriers.
a) polar substances
b) non-polar substances

3) Polar substances mix well with Polar substances but do not mix well with non polar substances.
a) True
b) False

4. Water is a polar substance?
a) True
b) False

5. The epidermis is composed of many layers of cells and a so is an effective barrier against:
a) polar substances
b) non-polar substances.

6. Non-polar medications like nicotine patches can enter the body through the skin.
a) true
b) false

7. Polar substances like water can easily enter the body through the skin.
a) true
b) false

8. Non-polar molecules in the body need to be carried on special proteins because they do not mix well with the body's watery environment.
a) true
b) false

9. This is a non-polar molecule that is carried in the blood on a protein called hemoglobin.
a) oxygen
b) carbon dioxide
c) cholesterol
d) triglycerides

10. Triglycerides and cholesterol are non-polar molecules that are carried in the body by lipoproteins.
a) true
b) false

Answers

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