

Topic: Biomolecules

Molecule	Percentage of total mass
water	60
protein	19
fat	15
carbohydrate	4
other	2

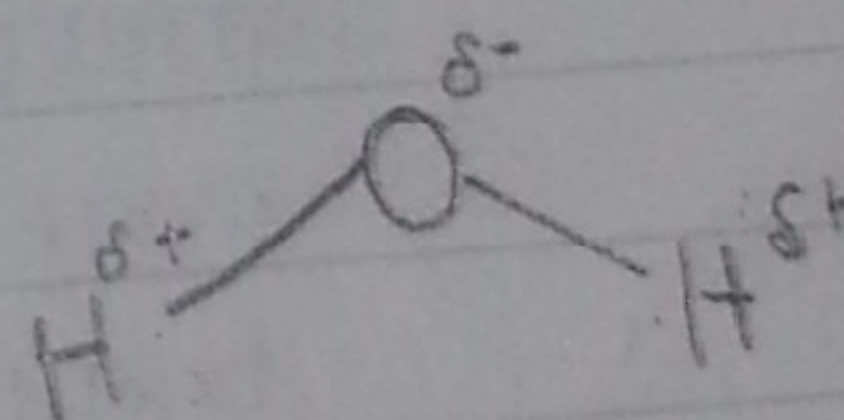
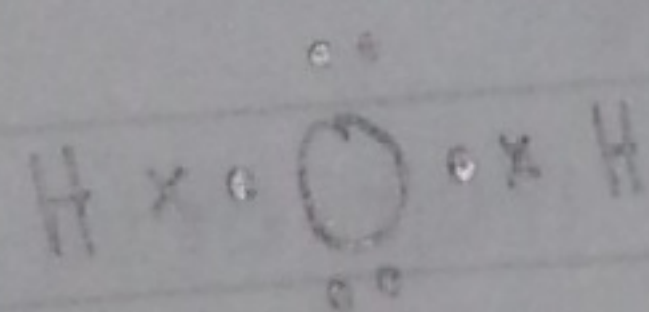
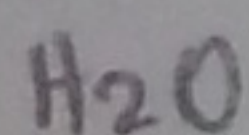
Table shows human body composition

Water

Water is by far the most abundant molecule in our bodies. It is a major component of cells, often making up between 70% and 90% of the cell's mass. Your body is about 60% water.

Water is often in liquid form, allowing it to act as the solvent in which metabolic reactions can happen. Water also provides a means of transporting molecules and ions from one place to another, because many of them can dissolve in it.

- The structure of a water molecule



A covalent bond is an electron-sharing bond, and in this case the sharing is not equal. The oxygen atom gets slightly more than its fair share, and this gives it a very small negative charge, written as δ^- . The hydrogen atoms have a very small positive charge, δ^+ .

$\therefore$ even though water has an overall neutral electrical charge, different parts of it have small positive and negative charges. This unequal distribution