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1. A radioisotope is an isotope with a stable nucleus.

= FALSE. A radioisotope is an isotope with an unstable nucleus.

2. Lipids are made of amino acids and glucose.

= FALSE. Lipids are made of Fatty acids and glycerol.

3. Hemoglobin carries oxygen.

=TRUE

4. Proteins have a four-dimensional (4D) structure.

= FALSE. Proteins have a three-dimensional (3D) structure.

5. Glycogen is an energy storage molecule in animals.

=TRUE

6. Ionic bonds form and break much more easily.

=FALSE. Hydrogen bonds form and break much more easily.

7. Water can pass through a semi-permeable membrane.

=TRUE.

8. Hydrogen bonds bond Amino acids together to form lipids

= FALSE. Peptide bonds bond amino acids together to form protein

9. The common symbol of carbohydrates is Ch_{202} .

= FALSE. The common symbol of carbohydrates is $(CH_2O)_n$

10. Buffer keeps the pH of metal atoms stable.

= FALSE. Buffer keeps the pH of body fluids stable.

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1. A-T (Adenine-Thymine), G-C (Guanine-Cytosine) is the base pairing of DNA. True.

2. Without RNA, proteins could be made. False. (Without RNA, proteins could never be made.)

3. Limit trans fat intake to less than 7% of total daily calories. False (Limit trans fat intake to less than 1% of total daily calories)

4. Lipids are soluble in hydrophobic solvents. True.

5. Transfer of Electron from the outer most shell is called Ionic Bond. True.
6. Lactose = Glucose+Galactose. True.
7. Water has a high specific heat of approximately 4.18 J/g°C. True.
8. Typically a double- stranded molecule with a long chain of nucleotides is RNA. False.
(Typically a double- stranded molecule with a long chain of nucleotides is DNA.)
9. Water molecules constantly escape from the surface of liquid water as vapor, a process called evaporation. True.
10. NaCl is a Covalent bond. False. (NaCl is an Ionic bond.)

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1. Carbon has 3 Isotopes. (True/False)

Ans: True.

2. Glucose + Glucose = Sucrose. (True/False)

Ans: False. (Glucose + Glucose = Maltose)

3. Acids Are substance that release (OH^-)

In aqueous solution. (True/False).

Ans: False. (Acids are substance that release (H^+) in aqueous solution.)

4. There Are 2 Types of Chemical Bond. (True/False)

Ans: False. (There Are 3 Types of chemical bond.)

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1. Phospholipids give fluidity to the cell membrane.

Ans : true

2. Lemon juice contains hyaluronic acid .

Ans: False. lemon juice contains ascorbic acid.

3. Essential fatty acids are saturated fat.

Ans: False. Essential fatty acids are unsaturated fat.

4. combine number of proton and neutron is mass number

Ans: True

5. Nucleotides have 3 parts.

Ans: True

6. hydrogen bonds form by donating / accepting ions.

Ans - false . hydrogen bonds is caused by attraction between 2 opposing charges .

7. alpha bond between glucose leads to formation of cellulose .

Ans- false . Alpha bond between glucose leads to formation of starch .

8. Hemoglobin and plasma proteins act as buffers in the human cell.

Ans: False. Hemoglobin and plasma proteins act as buffers in blood.

9. Amino Acids + Dipeptide = Polypeptide .

Ans: False. Amino Acids + Dipeptide = Tripeptide

10. In glucose, Carbon, Hydrogen and Oxygen makes a molecule of glucose in 1:3:1 ratio.

Ans: False. In glucose, Carbon, Hydrogen and Oxygen makes a molecule of glucose in 1:2:1 ratio.

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1. The number of protons in an atom can change during a chemical reaction, altering the element itself.

(False – The number of protons in an atom is fixed; only electrons are lost or gained during chemical reactions.)

2. Water molecules are held together by hydrogen bonds, which give water its unique properties.

(True)

3. Electrons are located in the nucleus of an atom.

(False – Electrons are located in the orbitals surrounding the nucleus of an atom.)

4. All atoms of a given element have the same number of neutrons.

(False – Atoms of a given element can have different numbers of neutrons; these are called isotopes.)

5. Lipids works as antibodies to prevent diseases

(False – Proteins works as antibodies to prevent diseases

6. All steroids poses a square structure

(False – all steroids poses a ring structure)

7. The total quantity of fat we eat may be of less importance to health than the kinds of fats we eat.

(True)

8. Lipids have a fixed ratio of carbon, hydrogen, and oxygen, similar to carbohydrates

(False – Unlike carbohydrates lipids don't have a fixes ratio of carbon, hydrogen and oxygen)

9. Isotopes of an element differ in the number of protons in their nucleus.

(False – Isotopes have the same number of protons but different numbers of neutrons.)

10. Diffusion is the movement of molecules from a region of lower concentration to a region of higher concentration.

(False – Diffusion occurs from higher concentration to lower concentration.)

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1. Passive transport doesn't require energy.

-True

2. Inorganic acids are stronger.

-True

3. Human blood is slightly acidic, with a pH around 6.8.

-False: Human blood is slightly alkaline, typically maintaining a pH of around 7.4.

4. Acids have a pH greater than 7.

-False: Acids have a pH of less than 7.

5. Charge is the fundamental building block of matter.

-False: Atom is the fundamental building block of matter

6. Anion is called the positive charge.

-False: Anion is called the negative charge

7. A hypertonic solution has a lower solute concentration than the cell.

-False: A hypertonic solution has a higher solute concentration than the cell.

8.Seawater is an example of a hypertonic solution for freshwater organisms.

-True.

9. Water is a high dielectric constant that allows it to effectively dissolve ionic and polar substances.

-True.

10.Starch is an energy storage molecule in plants.

-True

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1. Eating as little as 5 grams a day of hydrogenated vegetable oils increases a person's risk of atherosclerosis,heart attack,diabetes.

Answer: False, Eating as little as 2 grams a day of hydrogenated vegetable oils increases a person's risk of atherosclerosis,heart attack,diabetes.

2.Molecule are electrically neutral like atom.

Answer: True.

3.Covalent bond is stronger than ionic bond.

Answer: False, Ionic bond is stronger than covalent bond.

4.A less electromagnetic atom will pull electron less strongly towards itself.

Answer: True.

5.If a cell is placed in an hypotonic solution,there will be no net flow of water into or out of the cell.

Answer: False, If a cell is placed in an isotonic solution,there will be no net flow of water into or out of the cell.

6. Plasmolysis in plant cells occurs in a hypotonic solution.

Answer: False, Plasmolysis in plant cells occurs in a hypertonic solution.

7. Cellulose compose the exoskeletons of insects.

Answer: False, Chitin compose the exoskeletons of insects.

8. The milk proteins help the growth of infant mammals.

Answer: True

9. Osmosis plays a crucial role in maintaining cell function, fluid balance etc.

Answer: False, Tonicity plays a crucial role in maintaining cell function, fluid balance etc.

10. A fatty acid is replaced with a phosphate group, the resulting molecule is a steroid.

Answer: Falss, A fatty acid is replaced with a phosphate group, the resulting molecule is a phospholipid.

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1. Denaturation is the process of retaining 3 dimensional structure.

False(Renaturation is the process of retaining 3 dimensional structure)

2.Carbohydrates are found in spices

False: carbohydrates are found in sweeteners

3.Monosaccharides are a type of fat

False: Monosaccharides are a type of carbohydrate

4.Molecules can't contain atoms of different elements(false)

Correct Ans: Molecules can contain atoms of different elements or same elements

5. Osmosis requires energy input from cell. (False)

True : osmosis is a passive process and does not require energy input

6. Water is cohesive but not adhesive (false)

Correct Ans: water is cohesive as well as adhesive

7. Non Polar covalent bonds give water its unique properties that make life possible. (False)

Correct Ans: Polar covalent bonds give water its unique properties that make life possible.

8. chitin is partly derived from non sugars (nitrogen)

True

9. Both saturated and trans fat arrangements have hydrogen atoms around a carbon chain

True

10. Electronegativity is a measure of an atom's ability to lose electrons

False: Electronegativity is a measure of an atom's ability to attract and hold on to electrons in a chemical bond.