

Time: 30 minutes

Total: 15 points

Determine the BEST answer for each question, then fill in the corresponding oval on the answer sheet.

1. How many sex chromosomes are present in a human being?

- a. 1 pair
- b. 2 pairs
- c. 3 pairs
- d. 4 pairs

2. Which of the following best describes what will happen if cells are placed in a very salty solution?

- a. The cells remain unchanged.
- b. Water moves from inside of the cell to the outside.
- c. Water moves from outside of the cell to the inside.
- d. The cells burst.

3. Which of the following statements is true about proteins?

- a. Proteins are made up of amino acids.
- b. Proteins are essential for the development of skin, teeth and bones.
- c. Protein is the only nutrient that can build, repair and maintain body tissues.
- d. All of the above

4. What is the bond between amino acids called?

- a. Ionic bond
- b. Acidic bond
- c. Peptide bond
- d. Hydrogen bond

5. _____ is a form of cell division which results in the creation of gametes or sex cells.

- a. Mitosis
- b. Meiosis
- c. Miosis
- d. None of the above

6. Which part of the plant is primarily responsible for photosynthesis?

- A. Roots
- B. Flowers
- C. Stem
- D. Leaves

7. What is the primary function of smooth endoplasmic reticulum?

- a. DNA replication
- b. Protein synthesis
- c. Lipid synthesis
- d. Cellular respiration

8. The oxygen and carbon dioxide crosses the plasma membrane by the process of

- a. Active diffusion
- b. Facilitated diffusion
- c. Passive diffusion
- d. Random diffusion

9. The hormone that is responsible for reducing the sugar level in blood is secreted from:

- a. Pancreas
- b. Thyroid gland
- c. Adrenal gland
- d. Pituitary gland

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10. Which of the following represents a dominant homozygous genotype?

- a. Aa
- b. AA
- c. aa
- d. Both B and C

11. Which of the following structures is found in plant cells but not in animal cells?

- a. Mitochondria
- b. Nucleus
- c. Chloroplasts
- d. Endoplasmic reticulum

12. Which of the following is the basic unit of carbohydrates?

- a. Amino acids
- b. Nucleotides
- c. Monosaccharides
- d. Fatty acids

14. The products of photosynthesis process are:

- A. Carbohydrates and Oxygen
- B. Oxygen and water
- C. Carbohydrates and carbon dioxide
- D. Carbon dioxide and water

15. Most mutations result from

- A. Certain chemicals
- B. Ionizing radiation
- C. Infrared radiation
- D. All of the above.

15. An example of the polysaccharides (carbohydrates) that are used by the plants to store and produce energy is:

- a. Starch
- b. Glycogen
- c. Chitin
- d. Amylose

-----GOOD LUCK-----