Generated Question Paper

Question 1

- Biology Exam
- Instructions:
- Choose the best answer for each question.
- Each question carries equal marks.
- Do not leave any question blank.
- Read the questions carefully before answering.
- Section A: Multiple Choice Questions
- 1. What is the primary function of the mitochondria in a cell?
- a) To synthesize proteins
- b) To store genetic information
- c) To generate energy in the form of ATP
- d) To regulate cell growth and division
- 2. Which of the following types of RNA is responsible for carrying amino acids to the ribosomes during protein synthesis?
- a) Messenger RNA (mRNA)
- b) Transfer RNA (tRNA)
- c) Ribosomal RNA (rRNA)
- d) Small nuclear RNA (snRNA)
- 3. What is the term for the process by which water moves through a plant, from the roots to the leaves, and is then released into the air as water vapor?
- a) Respiration
- b) Photosynthesis
- c) Transpiration
- d) Evaporation
- 4. Which of the following hormones is produced by the pancreas and plays a key role in regulating blood sugar levels?
- a) Insulin
- b) Glucagon
- c) Adrenaline
- d) Thyroxine
- 5. What is the term for the process by which a cell becomes specialized to perform a specific function?
- a) Differentiation
- b) Mitosis
- c) Meiosis
- d) Osmosis
- 6. Which of the following types of cells is responsible for producing antibodies in response to infection?
- a) B cells
- b) T cells

- c) Macrophages
- d) Neutrophils
- 7. What is the term for the process by which genetic information is passed from one generation to the next?
- a) Mutation
- b) Genetic drift
- c) Natural selection
- d) Heredity
- 8. Which of the following organs is responsible for filtering waste and excess fluids from the blood?
- a) Liver
- b) Kidneys
- c) Heart
- d) Lungs
- 9. What is the term for the process by which an organism's genetic information is altered by external factors, such as radiation or chemicals?
- a) Mutation
- b) Genetic drift
- c) Natural selection
- d) Genetic engineering
- 10. Which of the following types of biological molecules is composed of nucleotides?
- a) Carbohydrates
- b) Proteins
- c) Nucleic acids
- d) Lipids