

EmpowerED

A Free, Non Profit Educational Platform

Section A: Multiple Choice Questions

- 1. **MCQ 1:** Which of the following is a renewable energy source?
- a) Coal
- b) Oil
- c) Solar
- d) Natural Gas
- 2. **MCQ 2:** What is the function of chlorophyll in photosynthesis?
- a) Absorb carbon dioxide
- b) Absorb sunlight
- c) Release oxygen
- d) Break down glucose
- 3. MCQ 3: Which of the following is a vector quantity?
- a) Mass
- b) Volume
- c) Speed
- d) Velocity
- 4. MCQ 4: What is the function of red blood cells in the human body?
- a) Fight infection
- b) Transport oxygen
- c) Transport nutrients
- d) Clot blood

Section B: Short Answer Questions

- 5. **Short Answer 1:** Explain the difference between a plant cell and an animal cell.
- 6. **Short Answer 2:** Describe the process of fossilization and its importance in paleontology.
- 7. **Short Answer 3:** Define Newton's first law of motion and provide an example.
- 8. **Short Answer 4:** Explain the role of the ozone layer in protecting life on Earth.

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Section C: Long Answer Questions

- Long Answer 1: Discuss the causes and consequences of climate change, including both natural and human-induced factors.
- 10.**Long Answer 2:** Describe the structure and function of DNA, and explain how it relates to genetics.
- 11.**Long Answer 3:** Explain the process of cellular respiration and its significance in energy production for living organisms.
- 12.**Long Answer 4:** Discuss the environmental impacts of deforestation and propose solutions to mitigate its effects.

Section D: Competency Based Questions

- 13. **Competency Based Question 1:** You are a member of a conservation group. Develop a plan to protect a local ecosystem from human activities such as pollution and habitat destruction.
- 14. Competency Based Question 2: Imagine you are a science communicator. Create a presentation explaining the importance of biodiversity conservation to a general audience, including examples of ecosystems and species at risk

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