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Madhya Pradesh School Education Board  
Class 10 Science Examination  
Subject: Our Environment  
Maximum Marks: 80  
  
Objective Section  
  
Multiple Choice Questions (MCQs): 5 x 1 = 5 Marks  
1. Which of the following is a primary consumer in an ecosystem?  
 a) Grass  
 b) Deer  
 c) Tiger  
 d) Fungus  
  
2. What is the main source of energy for the Earth’s ecosystem?  
 a) Wind  
 b) Water  
 c) Sunlight  
 d) Soil  
  
3. Which gas is primarily responsible for global warming?  
 a) Oxygen  
 b) Nitrogen  
 c) Carbon Dioxide  
 d) Helium  
  
4. Which of the following processes is responsible for the conversion of nitrogen in the atmosphere into a form usable by plants?  
 a) Photosynthesis  
 b) Nitrogen Fixation  
 c) Respiration  
 d) Decomposition  
  
5. In a food chain, the energy flow is:  
 a) Bi-directional  
 b) Cyclic  
 c) Unidirectional  
 d) Random  
  
Subjective Section  
  
Fill in the Blanks: 5 x 1 = 5 Marks  
1. \_\_\_\_\_\_\_\_\_\_ is the process by which green plants make their own food using sunlight.  
2. The layer of the Earth where life exists is called the \_\_\_\_\_\_\_\_\_\_.  
3. \_\_\_\_\_\_\_\_\_\_ are organisms that break down dead organic materials.  
4. The accumulation of harmful substances in the food chain is termed as \_\_\_\_\_\_\_\_\_\_.  
5. \_\_\_\_\_\_\_\_\_\_ is the term used for the variety of living organisms in a particular area.  
  
True/False Statements: 5 x 1 = 5 Marks  
1. Producers are organisms that produce their own food. (True/False)  
2. Decomposers are at the top of the food chain. (True/False)  
3. Ozone depletion is mainly caused by carbon dioxide. (True/False)  
4. Herbivores are primary consumers in a food chain. (True/False)  
5. The greenhouse effect is essential for life on Earth. (True/False)  
  
One-word Answers: 5 x 1 = 5 Marks  
1. What is the term for the network of interrelated food chains in an ecosystem?  
2. What do you call the process by which plants release water vapor into the atmosphere?  
3. Which element is a key component of proteins and nucleic acids in living organisms?  
4. What is the biological term for the loss of biodiversity?  
5. What is the term for an organism that can make its own food?  
  
Short Answer Questions: 5 x 5 = 25 Marks  
1. Explain the significance of the carbon cycle in the environment.  
2. Describe the process of nitrogen fixation and its importance to ecosystems.  
3. What are the effects of deforestation on the environment?  
4. Discuss the role of decomposers in an ecosystem.  
5. Explain how energy flows through a food chain.  
  
Long Answer Questions: 5 x 10 = 50 Marks  
1. Describe the greenhouse effect and its impact on global warming. Include the causes and preventive measures.  
2. Discuss the biodiversity of an ecosystem. Why is it important to conserve biodiversity?  
3. Explain the concept of sustainable development and its importance in the modern world.  
4. Describe the impact of human activities on the environment, providing examples of both positive and negative effects.  
5. Explain the water cycle in detail, including all its stages and their significance to life on Earth.  
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