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**Presidency University**

**Bengaluru**

**SCHOOL OF ENGINEERING**

**MAKE-UP EXAMINATION JULY 2024**

**Date**: 01.07.2021

**Time**: 9:30 AM-12:30 PM

**Max Marks**: 100

**Weightage**: 50%

**Semester**: I

**Course Code**: CHE1019

**Course Name**: Fundamentals of Environmental Studies

**Program & Sem**: B. Tech

**Instructions:**

1. *Read the question properly and answer accordingly.*
2. *Question paper consists of 3 parts*

**Part A (Memory Recall Questions)**

**Answer any ten questions. Each question carries one mark. (10Qx2M=20M)**

1. Factors affecting biodiversity are

1. Exploitation of wild living resources, including hunting and wildlife trading
2. Expansion of agriculture, forestry and aquaculture
3. Habitat loss
4. All the above

2. ………………. is the diversity of genes within a species.

* 1. genetic diversity
  2. species diversity
  3. ecosysytem diversity
  4. mega diversity

3. Some species are very rare and can be found in a particular ecosystem, these species are called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. extinct species
  2. endemic species
  3. special species
  4. pandemic species

4. Some species are very rare and can be found in a particular ecosystem, these species are called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. extinct species
  2. endemic species
  3. special species
  4. pandemic species

5. . The loss of top layer soil is known as \_\_\_\_\_\_\_\_\_

1. Soil conservation
2. Soil erosion
3. Soil convertion
4. None of the above

6. Iron deficiency leads to------------------

a) anemia

b) blindness

c) goitre

d) none of the above

7. Solar cells convert sunlight into \_\_\_\_\_\_\_\_

1. Nuclear energy
2. Electrical energy
3. Mechanical Energy
4. Chemical energy

8. Which of the following is a disadvantage of most of the non-renewable energy sources?

1. Pollution- emit harmful gases which lead to smog
2. Greenhouse effect
3. Do not replenish quickly as we use them
4. All the above

9. Global warming can significantly be controlled by \_\_\_\_\_\_\_\_\_\_\_\_\_

1. Deforestation
2. Reducing water wastage
3. Burning human-generated waste
4. Reducing fossil fuel consumption

10. Which of the following are the primary causes of water pollution?

1. Plants
2. Animals
3. Human activities
4. None of these

11. Which of the following are air pollutants?

1. Particulate Matters
2. Carbon monoxide
3. Nitrogen Dioxide
4. All the above

12. Calcium, Iron, Copper and Zinc are examples for which type of food group?

1. Carbohydrate
2. Protein
3. Vitamins
4. Minerals

**Part B (Thought Provoking Questions)**

**Answer any four questions. Each question carries one mark. (4Qx10M=40M)**

1. Species interact with each other in different ways. Discuss different types of species interactions with suitable example. (10M)
2. Biodiversity is under severe threat because of both natural causes and excessive human interference. What kind of conservative measures can be considered to preserve the biodiversity? (10M)
3. List out the sources of water. Discuss in detail cause, ill effects and prevention of water pollution. (10M)

16. Energy that is naturally replenished and do not runout easily is coined as what type of energy? Name five sources of the above for of energy.(10M)

17. Renewable energy resource does not cause pollution-no damage to planet earth. Find any 5 renewable energy sources and explain in detail. (10M)

**Part C (Problem Solving Questions)**

**Answer any two questions. Each question carries mark. (2Qx20M=40M)**

1. The water cycle describes the continuous movement of water on, above, and below the surface of the Earth. Water is always changing states between liquid, vapor, and ice and moving from one reservoir to another, such as from river to ocean, or from the ocean to the atmosphere. Identify the various processes that involves in water cycle. What are the human activities that alter the water cycle? (20M)
2. What is air pollution? Discuss in detail cause, ill effects and prevention of air pollution. (20M)

20.Food is any substance consumed to provide nutritional support for the body. However, more or less 20% of population in some region of the world are undernourished. From your point-of-view list out the main reasons for this world food problems. (20M)