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**Presidency University**

**Bengaluru**

**SCHOOL OF ENGINEERING**

**MAKE UP EXAMINATION JULY-2024**

**Semester:** 1

**Course Code**: CIV 102

**Course Name**: ENVIRONMENTAL SCIENCE AND DISASTER MANAGEMENT

**Program** : B Tech

**Date**: 11th July 2024

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

**Max Marks**: 100

**Weightage**: 50 %

**Instructions:**

1. *Read the all questions carefully and answer accordingly.*
2. *Question paper consists of 3 parts.*

**Part A**

**ANSWER ANY 5 QUESTIONS**

**Answer all the Questions. Each Question carries 5 marks. (5Qx 5M= 25M)**

1. The three types of environment are the physical environment, social environment, and culture. Define

Environment? Explain the concept of environment with Figure? (C.O.1) [Knowledge]

2. There are two types of food chains: the grazing food chain, beginning with autotrophs, and the detrital

food chain, beginning with dead organic matter. Define food chain and ecological pyramids? (C.O.2) [Knowledge]

3. Burning fossil fuels, cutting down forests and farming livestock are increasingly influencing the climate and the earth's temperature. Define global warming? List any four greenhouses. (C.O.3) [Knowledge]

4. Sustainability is important for many reasons including, Environmental Quality – In order to have healthy

communities, we need clean air, natural resources, and a nontoxic environment Define sustainability?

List the key elements of sustainable. (C.O.3) [Knowledge]

5. Physical characteristics of water are determined by senses of touch, sight, smell and taste. List any five

physical and chemical characteristics of water quality parameters. (C.O. 4) [Knowledge]

6. What is the estimated percentage of forest land that India should ideally have?

(C.O. 4) [Knowledge]

**Part B**

**ANSWER ANY 3 QUESTIONS 3Qx10M=30M)**

7. Soil erosion is a gradual process of movement and transport of the upper layer of soil (topsoil) by

different agents. List and explain any four soil erosion control measures. (C.O.1) [Comprehension]

8. Lakes are formed due to the action of glaciers and ice sheets. Such lakes are formed when glaciers

erode the land creating a depression. Discuss any five lake types and organisms with examples.

(C.O.2) [Comprehension]

9. Population growth is based on four fundamental factors: birth rate, death rate, immigration and

emigration Discuss any five human population characteristics. (C.O.4) [Comprehension]

10. What are the environmental factors in disaster management? Explain? (C.O.4) [Comprehension]

**Part C**

**ANSWER ANY 3 QUESTIONS (3Qx15M=45M)**

11. a) Write any of the four indoor air pollutants and their sources. 5M (C.O.3) [Comprehension]

b) Vehicle emissions, fuel oils and natural gas to heat homes, by-products of manufacturing and power

generation, particularly coal-fueled power plants, and fumes from chemical production are the

primary sources of human-made air pollution Explain control measures for air pollution. 10M (C.O. 3) [Comprehension]

12. a) What is the carrying capacity? Explain the basic components of sustainability.

5M (C.O. 3) [Comprehension]

b) Sustainable development is referred to as the idea that human beings should sustain by meeting their basic needs, while also making sure that the future generations are able to meet their basic needs Discuss problems and solutions in achieving sustainable development. 10M (C.O. 4) [Comprehension]

13. a) List the objectives and salient features of Forest conservation act. 5M (C.O. 4) [Comprehension]

b) The principle of gender equality is enshrined in the Indian Constitution in its Preamble, Fundamental

Rights, Fundamental Duties and Directive Principles. List any ten Govt. Schemes on women

empowerment and child health. 10M (C.O.4) [Comprehension]

14. What is the relationship between environment and disaster management? Explain?

15M(C.O.4)[Comprehension]