



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Agrl. Engg.) 2023 Admission
I Semester Final Examination- February 2024

Lwre.1102

Environmental Studies and Disaster Management (2+1)

Marks: 50
Time: 2 hours

I

Fill in the blanks

(10x1=10)

1. Abiotic components arecomponents of an ecosystem.
2. The historical Malthusian theory of population is proposed by
3. The Environment (Protection) Act was enacted in the year

Match the following

	Biosphere reserve		Location
4.	I. Nanda Devi	a)	Gujarat
	II. Kachchh	b)	Tamil Nadu-Kerala
	III. Nilgiri	c)	West Bengal
	IV. Sundarban	d)	Uttarakhand

Match the following

	United Nations SDG		Goal Number
5.	I. Zero Hunger	a)	3
	II. Good Health and well-being	b)	2
	III. Clean water and sanitation	c)	11
	IV. Sustainable cities and communities	d)	6

State True or False

6. The value of biological oxygen demand of clean water is always higher than polluted water.
7. Soil erosion is a process that happens when water or wind detaches and removes soil particles, resulting in soil degradation.
8. The Chernobyl disaster was a nuclear accident that happened in April 1986.
9. There are 17 sustainable development goals agreed by the member states of United Nations.

Define

10. Negative externality

II

Write short notes on ANY FIVE of the following

(5x2=10)

1. Write the name of any one compound which is associated with ozone depletion.
2. Name any two renewable energy sources.
3. Name any two endangered species of mammals in India listed in the red list/data-book.
4. Write the name of any two national parks located in Kerala.
5. Name any two global biodiversity hotspot located in India.
6. What is IUCN red list? Write the full form of IUCN.
7. Write the chemical reaction involved in the formation of sulfuric acid during acid rain.

III

Answer ANY FIVE of the following

(5x4=20)

1. Write a short note on man-made disasters.
2. Write a short note on the effect of agriculture on the environment.
3. How does deforestation affect the environment?
4. Write a short note on energy flow in an ecosystem.
5. What are ecological pyramids?

6. What is ecological succession?
7. What is rainwater harvesting?

IV

Write an essay on ANY ONE of the following

(1x10=10)

1. Write an essay on global biodiversity hotspots and the threats associated with them.
2. Write an essay on various types of environmental pollution and its effect on human health.
