



**KERALA AGRICULTURAL UNIVERSITY**  
**B. Tech. (Agrl. Engg.) 2022 Admission**  
**I Semester Final Examination – March 2023**

Lwre.1102

**Environmental Studies and Disaster Management (2+1)**

**Marks: 50**  
**Time: 2 hours**

**I Fill in the blanks (10x1=10)**

1. Five .....substances that are responsible for more than 90% of air pollution in India.
  2.  $100 \mu\text{g}/\text{m}^3$  is equal to .....  $\mu\text{g}/\text{feet}^3$ .
  3. Ozone stops harmful ..... from reaching the earth's surface.
  4. .... isotope of Uranium is utilized for the fission process.
  5. pH of rain water is .....
  6. Eutrophication is..... of water by nutrients.
- State True or False**
7. Electrostatic Precipitator is used to measure air pollution.
  8. Ozone present in stratosphere is mostly primary.
  9. Methane is a Volatile Organic Compound.
  10. Environment Protection Act was enacted in the year 1986.

**II Write short notes on ANY FIVE of the following (5x2=10)**

1. Biomass
2. Describe primary and secondary water treatment.
3. Photovoltaics
4. Hot spots of biodiversity
5. What are solid wastes and hazardous wastes?
6. Explain sustainability and sustainable development.
7. Acid rain

**III Answer ANY FIVE of the following (5x4=20)**

1. What is composting and how does it fit into solid waste disposal
2. What do you understand by thermal pollution? How it can be reduced
3. Write a note on Ozone Depleting Substances (ODS)
4. Please explain wetlands? How it is important to the ecosystem
5. What do you understand by soil profile? Which profile(s) is/are more prone to pollution
6. Write a detailed explanation about the water prevention and control of pollution act
7. Write a note on tsunami

**IV Write an essay on ANY ONE of the following (1x10=10)**

1. Renewable energy sources with minimum four detailed examples
2. Global warming and sea level rise

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