



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc ( Hons.) Agriculture 2014 & Previous Admissions**  
**VI Semester Final Examination-August-2017**

Ssac. 3206

Environmental Science (1+1)

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

**I Fill in the blanks/Expand: (10 x 1=10)**

- 1 World Environment day is observed on -----
- 2 The direction of energy flow is -----
- 3 CFC like ----- and ----- have very low ozone depletion potential.
- 4 A wind farm is located at ----- in Kerala.
- 5 In grass land ecosystem pyramid of energy is -----
- 6 ----- is a Biosphere Reserve in South India.
- 7 ----- is the most popular biodiesel plant in India.
- 8 Expand CPCB
- 9 Name two hot spots of Biodiversity in India.
- 10 Name the Author of the book *Silent Spring*.

**II Write short notes on any FIVE: (5 x 2=10)**

- 1 Energy flow through ecosystem.
- 2 Major reasons for enhanced pollution in urban areas.
- 3 Agricultural biodiversity.
- 4 Impact of thermal pollution on water bodies.
- 5 Ecological pyramids.
- 6 Secondary air pollutants.
- 7 Advantages of anaerobic composting over aerobic composting.

**III Answer any FIVE: (5 x 4=20)**

- 1 Energy flow in an ecosystem. Describe with neat sketches.
- 2 Reasons for Bhopal tragedy in 1984.
- 3 Explain Forest Conservation Act.
- 4 Heavy metals and its impact on human health.
- 5 Major reasons for the occurrence of water scarcity across the State Kerala.
- 6 Explain the different types of radiation. What are the different sources of radiation? Outline the various radionuclides in soil and the associated health effects.
- 7 Phytoremediation.

**IV Write essay on any ONE: (1 x 10=10)**

- 1 Explain biodiversity and its importance. What are the major threats to biodiversity? Describe in detail the methods for conservation of biodiversity in India.
- 2 Define soil pollution. Explain the sources of pollution in soil. How soil pollution affects soil health and plant growth. Suggest specific remedies mitigating soil pollutants.

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