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## Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)

Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641043, Tamil Nadu, India

### Bachelor's Degree Arrear Examination – November 2025 II Semester

Batch : 2023, 2024  
Major : All Majors

Time : 3 Hours  
Max. Marks : 100

#### 23BAEES1 Environmental Studies

##### Part A

10 x 1 = 10

##### Choose the Correct Answer

- Energy flow in an food chain is always
  - Cyclic
  - Linear and unidirectional
  - Random
  - Bidirectional
- The lithosphere mainly consists of:
  - Rocks and soil
  - Air and gases
  - Water bodies
  - Living organisms
- The primary source of heating of Earth's atmosphere is
  - Geothermal energy
  - Solar radiation
  - Volcanic eruptions
  - Ocean tides
- Which activity is a major cause of deforestation?
  - Dam construction
  - Organic farming
  - Rainwater harvesting
  - Terrace farming
- Which of the following regions is a global biodiversity hotspot in India?
  - Indo-Gangetic Plain
  - Western Ghats
  - Thar Desert
  - Rann of Kutch
- Botanical gardens are an example of
  - In-situ conservation
  - Ex-situ conservation
  - Sacred groves
  - Ecosystem diversity
- The Bhopal Gas Tragedy (1984) was caused by the leakage of
  - Sulphur dioxide
  - Carbon monoxide
  - Methyl isocyanate
  - Chlorofluorocarbons
- Hazardous waste from industries is best disposed of through
  - Sanitary landfill
  - Open dumping
  - Ocean dumping
  - Secure land filling and incineration
- Disaster management primarily includes
  - Prevention, mitigation, preparedness, response, and recovery
  - Industrialization and urbanization
  - Only relief and rescue operations
  - Afforestation programmes
- The Chipko Movement is associated with
  - Anti-mining protests
  - Forest conservation through tree-hugging
  - Water harvesting
  - Wildlife poaching prevention

**Part B**

**5 x 6 = 30**

**Answer ALL questions**

**Each answer should not exceed 400 words or two pages**

- 11.a. Differentiate between food chain and food web with a neat diagram.  
(or)
- 11.b. Describe the structure of a grassland ecosystem.
- 12.a. List the major causes of deforestation in India.  
(or)
- 12.b. Write a short note on floods and droughts as environmental problems.
- 13.a. Describe the major threats to biodiversity with examples.  
(or)
- 13.b. What is in-situ conservation? Give two examples.
- 14.a. What is ozone layer depletion and how does it affect life on Earth?  
(or)
- 14.b. Explain the term 'human-wildlife conflict' with an example.
- 15.a. Define carbon footprint and give two examples of activities that contribute to an increase in it.  
(or)
- 15.b. Write a brief note on the Chipko movement.

**Part C**

**5 x 12 = 60**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

- 16.a. Explain the components of the environment with suitable examples.  
(or)
- 16.b. Write detailed notes on aquatic ecosystems.
- 17.a. Discuss the environmental, social and economic consequences of droughts in India.  
(or)
- 17.b. Describe different renewable and non-renewable energy resources with their merits and demerits.
- 18.a. Describe the biogeographic zones of India and discuss their major characteristics with examples of flora and fauna.  
(or)
- 18.b. Compare and contrast in-situ and ex-situ methods of biodiversity conservation with example
- 19.a. Analyze the causes, impacts, and control methods of air pollution with examples from urban areas in India  
(or)
- 19.b. Discuss the importance of international agreements such as the Montreal Protocol, Kyoto Protocol, and Convention on Biological Diversity.
- 20.a. Explain how population growth contributes to resource depletion, pollution, and urbanization.  
(or)
- 20.b. Explain the strategies and challenges in implementing public awareness programmes effectively.