

**2025**  
**RANI RASHMONI GREEN UNIVERSITY**  
**ENVIRONMENTAL SCIENCE**  
**SEMESTER-IV**  
**GEST:41**  
**Full Marks: 40**  
**Time: 2 Hours**

*Candidates are required to give their answers in their own words as far as practicable.*

*Answer any 8 questions selecting 4 from each unit.*

**Unit 1:**

**Environmental Impact Assessment (EIA) and Environmental Legislation.**

1. Critically evaluate the limitations of matrix and network methodologies in multi-sectoral EIA projects. 5
2. Discuss the role of Geographical Information Systems and Remote Sensing in enhancing post-project environmental monitoring. 5
3. Explain the difference between auditing and post-project monitoring in terms of enforcement. 5
4. Write short notes on:
  - a. Constitutional provisions for the Wildlife Protection Act (WPA), 1972.
  - b. Important Amendments done to the Wildlife Protection Act (WPA), 1972. 3+2 = 5
5. What are the systemic flaws in the statutory clearance process under the EIA Notification, 2006? Discuss with examples. 5

**Unit 2**

**Environmental Economics and Audit**

6. Describe in detail the following topics regarding the Environmental Kuznets Curve (EKC):
  - a. The relationship between environmental quality and economic development.
  - b. Explain the different phases in EKC with a proper diagram.
  - c. Criticism of EKC with proper examples. 1+2+2 = 5
7. Explain in detail the following topics regarding the Contingent Valuation Method (CVM):
  - a. Steps involved in the application of CVM of an ecosystem.
  - b. Potential biases involved with CVM. 2+3 = 5
8. Mention in detail the following topics regarding the Special Economic Zones (SEZ) Act, 2005:
  - a. Definition and objectives of the SEZ Act, 2005.
  - b. List any six (6) major operational SEZs and challenges that occur during their operations.  
2+3 = 5

9. Elucidate the following topics regarding the Green Audit:
  - a. Types of Green Audit.
  - b. Importance of Green Audit. 2+3 = 5
10. Discuss in detail the following topics in terms of ISO 14000:
  - a. The key elements comprise the Environmental Management System (EMS).
  - b. Advantages and disadvantages of ISO 14000. 2+3 =5