

**Ph. D. IN ENVIRONMENTAL SCIENCE
(PHDEV)**

Term-End Examination

December, 2024

REVE-007 : SUSTAINABILITY SCIENCE

Time : 3 Hours

Maximum Marks : 100

Note : (i) Attempt any **ten** questions.

(ii) All questions carry equal marks.

(iii) Answer each question in about
500 words.

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1. Explain with suitable examples the linkages among global, social and human system from sustainability perspective. 10
 2. What is Natural Capital ? Why is accounting for natural capital so important ? 5+5

3. Define the term 'Ecosystem Integrity'. Explain the *three* growth forms of ecosystems. 4+6
4. Discuss the concept of 'strong and weak sustainability' with suitable examples. 5+5
5. Define biomass. Briefly explain the different types of biomass. 3+7
6. What is property rights ? Explain the *six* characteristics of Property Rights Regime. 4+6
7. Explain environment-economy interlinkages with suitable examples. 10
8. Discuss the role of Remote Sensing Techniques in Clean Development Mechanism (CDM). 10
9. What is carbon sequestration ? Explain the global carbon cycle. 4+6
10. What are fragile ecosystems ? How can traditional knowledge help to conserve fragile ecosystems ? 4+6

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11. Discuss the driving force behind the development of bioenergy and the role of bioenergy for energy security. 10
12. How has climate change been affecting livelihoods of marginal communities ? Explain with suitable examples. 10

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