PG Even Semester Exam, 2023

Ecology & Environmental Science

2nd Semester

COURSE NO. ECG-556

[Environmental Values and Ecosystem Services]

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, taking one from each Unit

UNIT-I

1. a. Explain why nature is considered as global life support system. In this context elaborate the concept of eco-centric view point of nature. 6+4=10

   b. Briefly discuss the significance of environmental standard setting. 4

2. Write short notes on :- 7x2=14

   a. Environmental responsibility

   b. Central Pollution Control Board (CPCB)

UNIT-II

3. What do you mean by environmental ethics? Briefly discuss the issues of environmental ethics and its solution. 2+12=14

4. Describe briefly the harmful impacts of environmental pollution on animal. Briefly highlight some in-situ methods of bio resource conservation. 8+6=14

UNIT-III

5. What are ecosystem services and function? What are the different types of ecosystem services? Write in details about the principle and limitations of ecosystems services. 4+1+9=14

6. Briefly discuss the benefits and advantages of ecosystem services. Write a note on risk of monitoring of ecosystem services. 10+4=14

UNIT-IV

7. Describe briefly the different drivers affecting regulating ecosystem services in aquatic and terrestrial systems. 7+7=14

8. Write short notes on: 7x2=14
   a. Restoration of regulating ecosystem services
   b. Valuation of regulating ecosystem services

UNIT-V

9. State the various goods and services of ecosystem highlighting the different direct and indirect use values. Describe the role of provisioning services in providing more resilience and resistance to ecosystem functioning. 2+5+7=14

10. What is valuation of ecosystem services? State the importance of valuation of ecosystem services with particular reference to provisioning services. Describe few methods of valuation of provisioning services with appropriate examples. 2+5+7=14

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