

No. of Printed Pages : 3

**MSD-014**

**POST GRADUATE DIPLOMA IN  
SUSTAINABILITY SCIENCE (PGDSS)**

**Term-End Examination**

**June, 2020**

**MSD-014 : ECOLOGICAL ECONOMICS**

*Time : 3 Hours*

*Maximum Marks : 100*

---

*Note : Attempt any ten questions. All questions  
carry equal marks.*

---

---

1. Explain the framework of the environment-  
economy linkages model. 10
  
2. Differentiate between stock-flow resource and  
fund service resource. Give suitable examples. 10
  
3. Explain the following terms : 5, 5
  - (a) Earth's carrying capacity
  - (b) Demographic transition model

4. Explain IPAT identity. 10
5. Define sustainable yield. Explain sustainable yield curve with suitable graph. 3, 7
6. What are the major ecosystem services provided by the Urban Forest ? Explain with suitable examples. 10
7. Discuss impacts of international trade and globalisation on sustainability of forest in India. 10
8. What is co-evolutionary economics ? Explain, why joint production techniques are important co-evolutionary economics. 5, 5
9. Briefly explain, how the environmental degradation and poverty are interrelated in a fragile ecosystem of India. 10
10. Explain different types of urban solid wastes in India. 10
11. What is contingent valuation method ? What are its limitations ? 5, 5

[3]

12. Define the following terms :

$2\frac{1}{2}$  each

- (a) Taxes
- (b) Subsidy
- (c) Compensatory incentives
- (d) Emission trading

13. What is carbon trading ? What are its advantages ?

5, 5