| MSD-014 |

POST GRADUATE DIPLOMA IN SUSTAINABILITY SCIENCE (PGDSS)

Term-End Examination

00273   **June, 2017**

MSD-014 : ECOLOGICAL ECONOMICS

Time : 3 hours   *Maximum Marks : 100*

Note : *Answer any* **ten** *questions. Each question carries equal marks.*

1. (a) Explain the significance of entropy hourglass.

   (b) Describe the linkages between economy and environment with the help of a suitable diagram.   *5+5=10*

2. Discuss the Demographic Transition Model.   *10*

3. Write short notes on the following : $4 \times 2\frac{1}{2} = 10$

   (a) Stock-Flow Resource

   (b) Fund-Service Resource

   (c) Excludable Resource

   (d) Rival Resource

4. (a) What is Environmental Kuznets Curve ?

(b) Discuss the features of Environmental Kuznets Curve. *2+8=10*

5. Write short notes on the following concepts : *5+5=10*

(a) IPAT Identity

(b) Maximum Sustainable Yield

6. (a) What are abiotic resources ?

(b) Discuss the importance and characteristics of abiotic resources. *2+8=10*

7. Explain the principle of sustainable extraction of renewable resources with suitable illustrations. *10*

8. Discuss waste absorption in the ecosystem as an ecosystem service. *10*

9. Write short notes on the following : *5+5=10*

(a) Co-evolutionary Economics

(b) Living Planet Index

10. Explain the concept of ecological overshoot through IS-LM model. *10*

11. (a) What is fragile ecosystem ?

(b) Discuss the characteristics of fragile Himalayan ecosystem. *2+8=10*

12. Explain the following : $4 \times 2\frac{1}{2} = 10$

    (a)   Urban air pollution

    (b)   Urban noise pollution

    (c)   Urban solid waste management

    (d)   Urban water pollution

13. (a)   What is tragedy of commons ?

    (b)   Discuss the problems associated with land based common pool resources in India. $2+8=10$

14. (a)   What are the economic compulsions of women's ecological conservationism ?

    (b)   Discuss the gendered impacts of environmental degradation. $5+5=10$

15. (a)   What are the types of environmental policy instruments ?

    (b)   Explain the decentralised environmental policy instruments.

    (c)   Discuss the command and control regulations. $2+4+4=10$