



K17P 1374

Reg. No. : .....

Name : .....

Third Semester M.A. Degree (Reg./Supple./Imp.)  
Examination, November 2017  
**ECONOMICS/APPLIED ECONOMICS/DEVELOPMENT ECONOMICS**  
(2014 Admn. Onwards)  
**ECO 3C 12 : Environmental Economics**

Time : 3 Hours

Max. Marks : 60

PART - A

Answer **all** questions. **Each** questions carries **half** marks.

1. The principle which says that energy can neither be created nor destroyed is
  - a) Coase theorem
  - b) First law of thermo dynamics
  - c) Pigouvian law
  - d) Theory of gravitational pull
2. The name given to a tax which makes the firm pays for all the pollution damage it creates with each extra unit of output.
  - a) Tradable pollution permits
  - b) Green tax
  - c) Automobile tax
  - d) Pigouvian tax
3. Which of the following is NOT a primary source of energy ?
  - a) Wood
  - b) Natural gas
  - c) Oil
  - d) Electricity
4. Ozone layer lies in :
  - a) Exosphere
  - b) Stratosphere
  - c) Mesosphere
  - d) Troposphere
5. Montreal protocol to reduce production of chlorofluorocarbons was assigned in
  - a) 1987
  - b) 1977
  - c) 1997
  - d) 2007
6. Which of the following is NOT a green house gas ?
  - a) Carbon dioxide
  - b) Methane
  - c) Sulphur dioxide
  - d) Nitrous oxide

P.T.O.



7. Which of the following is NOT a renewable energy source ?
- a) Wind                      b) Coal                      c) Sun                      d) Wave
8. Endemic species are
- a) Rare species                      b) cosmopolitan in distribution
- c) species localized in specific region                      d) critically endangered species

(8×½=4)

PART - B

(Very Short answers)

Answer **any eight** questions. **Each** question carries **2** marks. No answer should exceed **one** page.

9. Discuss the significance of biodiversity ?
10. Portray food chain.
11. What is entropy and discuss the second law of thermodynamics ?
12. What is climate change ?
13. Identify the linkage between economy and environment.
14. What is material balance model ?
15. What is meant by ozone layer ?
16. Briefly explain the 'Pollution haven' hypothesis.
17. Discuss the mitigation measures for floods and landslides.
18. Identify the significance of Montreal protocol.
19. What is meant by resource taxonomy ?

(8×2=16)

PART - C

Answer **any four** questions. **Each** question carries **5** marks. No Answer should exceed **two and half** pages.

20. Critically evaluate the Pigouvian tax as an instrument for pollution control.
21. Make an assessment on various renewable energy resources.
22. Discuss the key elements of sustainable development.
23. Explain the use of safe minimum standard for managing catastrophic risk.



24. What is meant by the problem of tragedy of the commons ?
25. Trace the need for and the judicious use of renewable and non renewable resources in the present day context. (4x5=20)

PART - D

(Essay)

Answer **any two** questions, **each** questions carries **10** marks. No answer should exceed **six** pages.

26. Discuss the importance of water recycling, conservation and watershed management in the present day context.
27. Discuss the various market based and non market based policy instruments for environment regulation.
28. What are the important steps in Environmental Impact Assessment (EIA) ?
29. Discuss the various global environmental issues, its solutions, steps taken and mitigation issues. (2x10=20)