M.A. Examination, 2018
Semester-III
Economics
Course – XI (Group-B) (Special Paper)
(Environmental and Resource Economic)

(For Back Candidates)

Time: Three Hours **Full Marks: 40**

Questions are of value as indicated in the margin

Answer ***any four*** questions.

1. (a) Discuss the relationship between poverty and environment.

   (b) Define 'sustainable development'. Describe Daly's operational principles for sustainable development. 5+5 = 10

2. What is the theoretical idea behind the existence of an Environmental Kuznets Curve (EKC)? To what extent empirical evidences support the existence of an EKC? 10

3. Assuming two polluters and a targeted socially optimum level of pollution, show how efficiency can be achieved by a Pigovian tax on emissions. Why such efficiency is static in nature? 8 + 2 = 10

4. What is a 'backstop' in the context of non-renewable resources? Show how presence of a backstop technology puts an upper limit on the time path of price of such a resource. 2 + 8 = 10

5. Define 'effort' and 'sustainable yield' in the context of fishing. Derive the relationship between effort and sustainable yield. 3 + 7 = 10

6. Describe the shape of the volume growth curve of timer against time. How it can be expressed in monetary terms? How you can derive the present discounted value for timber with a positive interest rate? Graphically indicate the effect of interest rate on the optimum harvesting time. 3+1+2+4 =10

7. Distinguish between Revealed Preference and Stated Preference approaches of environmental valuation. Give an example of an ecosystem service that can be valued by Revealed Preference approach. Describe briefly how you will carry out the valuation exercise. 4 + 6 = 10

8. Write short notes on ***any two*** of the following: 5 × 2 = 10
   (i) Green Accounting
   (ii) Common Property Resources and Private Property Resources
   (iii) 'Ambient pollution' and 'transfer coefficient'
   (iv) Total Economic Value (TEV) of an environmental asset and its components

———