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3 TDC (Special) ECO M 8

2016

(July)

ECONOMICS

(Major)

Paper : 30800

(Environmental Economics)

Full Marks : 90

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Answer as directed : $1 \times 10 = 10$

(a) _____ is an example of global pollution.

(i) Smog

(ii) Acid rain

(iii) Enhanced Greenhouse Gas Effect

(iv) None of the above

(Choose the correct answer)

Contd.

(b) Marginal External Cost (MEC) =

- (i) Marginal social cost – Marginal private cost
- (ii) Marginal social benefit – Marginal social cost
- (iii) Marginal private benefit + Marginal social cost
- (iv) None of the above

(Choose the correct answer)

(c) Public goods are characterized by

- (i) indivisibility
- (ii) principle of nonexclusion
- (iii) diminishing average cost
- (iv) All of the above

(Choose the correct answer)

(d) Give *two* examples of nonrenewable resource.

(e) Define negative externality.

(f) Environmental Impact Assessment (EIA) is conducted _____ the establishment of a project.

- (i) after
- (ii) prior to
- (iii) during
- (iv) None of the above

(Choose the correct answer)

(g) Allocation of property rights for optimal solution to environmental problems is associated with

- (i) Alfred Marshall
- (ii) Ronald Coase
- (iii) A. C. Pigou
- (iv) None of the above

(Choose the correct answer)

(h) Name *one* International Environmental Standard.

- (i) Give an example of common property resource.
- (j) Name *one* naturally occurring Greenhouse gas.

2. Write short notes on **any four** of the following (**within 150 words** each) :

5×4=

- (a) Loss of biodiversity
- (b) Deforestation and sustainable development
- (c) Renewable and nonrenewable resources
- (d) Pollution Haven Hypothesis
- (e) Environmental Kuznets curve

Answer the following (**within 500 words** each)

3. (a) Critically discuss the population environment linkages.

Or

- (b) State the Entropy law. Discuss the law of thermodynamics.

4+8=

4. (a) Explain the relationship between resource economics and environmental economics. Discuss the Production Possibility Approach for choice of environmental quality for the current and future generations.

5+7=

Or

- (b) Discuss various types and sources of pollution. How does it affect human health and consequently the goals of sustainable development ?

7+5=12

5. (a) What are public goods ? Explain environmental quality as a public good.

5+7=12

Or

- (b) Explain environmental quality in the context of market and competitive equilibrium. What are the limitations of market in the context of public goods ?

8+4=12

5. (a) Define Environmental Reporting and Environmental Audit. Explain the process of environmental audit.

4+8=12

Or

- (b) Define Environmental Impact Assessment. How does it help in achieving environmental sustainability ?

4+8=12

7. (a) Mention some major environmental laws in force in India. Have these laws succeeded in meeting the needs of sustainable development ? Discuss.

5+7=12

Or

- (b) Mention some major environmental problems of North-East India. How can the North-East region resolve the conflicts between the goals of rapid economic growth and environmental sustainability ?

5+7=12