

**2019**

( May )

**ECONOMICS**

( Major )

Course : 602

**( Environmental Economics )**

*Full Marks : 80*

*Pass Marks : 32/24*

*Time : 3 hours*

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

1. Choose the correct answer/Fill in the blank  
from the following : 1×8=8

(a) \_\_\_\_ is an example of local pollution.

(i) Acid rain

(ii) Smog

(iii) Enhanced greenhouse gas effect

(iv) Ozone layer depletion

- (b) The material balance model illustrates
- (i) the circular flow of activity among firms, households and government
  - (ii) the circular flow of economic activity and nature
  - (iii) the circular flow of income between firm and household sector
  - (iv) None of the above
- (c) In case of positive externality, external effect generates
- (i) cost to third party
  - (ii) benefit to third party
  - (iii) both cost and benefit to third party
  - (iv) None of the above
- (d) The maximum amount of a pollutant that is permitted to be discharged from a single polluting source over a specified period of time is called
- (i) effluent charge
  - (ii) emission standard
  - (iii) entropy law
  - (iv) liability

- (e) Sustainable development ensures steady supply of resources for the
- (i) present generation
  - (ii) future generation
  - (iii) both the present and future generation
  - (iv) None of the above
- (f) Kyoto protocol is associated with
- (i) reduction of greenhouse gas
  - (ii) carbon trading
  - (iii) Both (i) and (ii)
  - (iv) Neither (i) nor (ii)
- (g) The compound responsible for causing ozone layer depletion is
- (i)  $\text{CO}_2$
  - (ii) methane ( $\text{CH}_4$ )
  - (iii) nitrous oxide (NO)
  - (iv) CFCs
- (h) Existence of a number of different kinds of animals and plants which together make a healthy environment is called \_\_\_\_\_.

2. Write short notes on any *four* of the following  
(within 150 words each) :  $4 \times 4 = 16$

- (a) Environment and development
- (b) Common property resources
- (c) Carbon trading
- (d) Environmental impact assessment (EIA)
- (e) Solid waste management in Assam

Answer the following questions (within 500 words each) :

3. (a) Define environmental economics. Illustrate with examples, the environment as economic and social assets.  $2+5+5=12$

Or

(b) What are renewable and non-renewable sources of energy? What are the difficulties in adopting renewable resources as forms of energy in developing countries?  $6+6=12$

4. (a) What do you mean by market failure?  
What are the causes of market failure?  
Why does market fail for environmental  
quality? 2+3+6=11

Or

- (b) What are the characteristics of public  
goods? Is it possible to achieve optimal  
provision in case of public goods?  
Explain. 5+6=11

5. (a) What is command and control approach  
of solving environmental problems?  
What are the advantages and  
disadvantages of this method? 6+5=11

Or

- (b) Explain critically different market-  
based instruments for the control of  
pollution. 11

6. (a) What is sustainability? Explain the  
meaning of strong and weak  
sustainability. Do you think there is a  
conflict between economic growth and  
sustainable development? 2+5+4=11

( 6 )

Or

- (b) What is sustainable development? Explain the indicators of sustainable development.

3+8=11

7. (a) What is deforestation? What are the causes and consequences of deforestation? Give a brief account of deforestation in Assam.

2+5+4=11

Or

- (b) What are the major environmental problems of developed and developing countries? Discuss the environmental policy choices for the developing countries.

5+6=11

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