

# Test Bank for Environmental Economics An Introduction 7th Edition by Field ISBN 9780078021893

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Chapter 02 – The Economy and the Environment

## Chapter 02 The Economy and the Environment

### Multiple Choice Questions

1. The trade-off that exists between harvesting as much as possible of a renewable resource today versus waiting for the future exemplifies the \_\_\_\_\_ of many natural resource management issues.

- A. sustainability
- B. intertemporal dimension
- C. short-run impact
- D. efficiency

*Difficulty: Easy*

2. When a new production technology is invented that results in production of smaller amounts of residuals per unit of output produced, this is called reducing the \_\_\_\_\_.

- A. damages from production
- B. intensity of pollution
- C. residuals from production
- D. residuals intensity of production

*Difficulty: Easy*

3. The residuals from production can be reduced by \_\_\_\_\_. A.  
shifting the composition of output towards low-residual items

- B. preventing pollution by reducing the energy inputs required to produce each unit of output
- C. reducing the residuals intensity of production
- D. all of the choices are correct

*Difficulty: Moderate*

4. An accidental oil spill is an example of a(n) \_\_\_\_\_ emission while municipal treated waste is an example of a(n) \_\_\_\_\_ emission.

- A. continuous; episodic
- B. global; local
- C. point source; nonpoint source
- D. episodic; continuous

*Difficulty: Easy*

5. The study of nature in its role as a provider of raw materials is called \_\_\_\_\_.

- A. natural resource economics
- B. natural economics
- C. environmental economics
- D. all of the choices are correct

*Difficulty: Easy*

6. \_\_\_\_\_ economics is an example of a subdivision of natural resource economics.

- A. Agricultural
- B. Energy
- C. Mineral
- D. all of the choices are correct

*Difficulty: Moderate*

7. Nonrenewable resources are those for which there is no process of \_\_\_\_\_.

- A. substitution
- B. replenishment
- C. sustainability
- D. assimilation

*Difficulty: Easy*

8. Both renewable and nonrenewable resources have \_\_\_\_\_ trade-offs.

- A. objectivity
- B. intertemporal
- C. relevance
- D. stock

*Difficulty: Easy*

9. One of the theoretical ideas of natural resource economics is that the earth's \_\_\_\_\_ is a natural resource under threat of depletion.

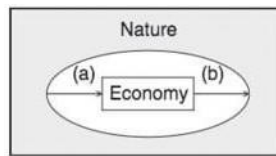
- A. sun
- B. population
- C. sustainability
- D. assimilative capacity

*Difficulty: Easy*

10. Although the dividing line between the two is blurring generally speaking, \_\_\_\_\_ is concerned with resource extraction and \_\_\_\_\_ is concerned with environmental degradation.

- A. production economics; consumption economics
- B. environmental economics, natural resource economics
- C. natural resource economics; environmental economics
- D. consumption economics; production economics

*Difficulty: Easy*



11. In the figure above, (a) represents \_\_\_\_\_.

- A. the extraction of resources from nature
- B. natural resource economics
- C. the consumption of goods and services
- D. the role of government

*Difficulty: Easy*

12. In the long run, residuals discharged by producers plus residuals discharged by consumers must be equal to the materials and energy extracted from the natural environment. The fundamental balance equation states that this is also equal to the \_\_\_\_\_.

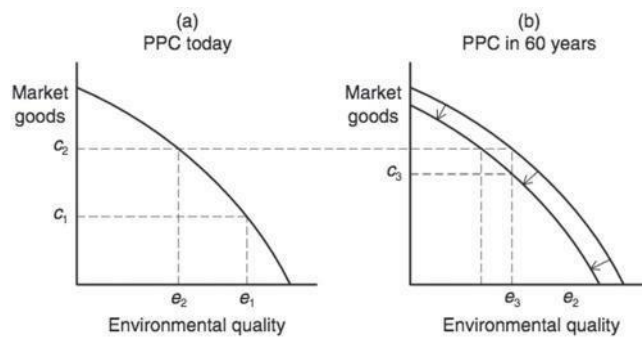
- A. output of goods and services minus consumer recyclables
- B. output of goods and services plus production residuals minus recyclables
- C. output of residuals minus consumer recyclables plus producer surplus
- D. benefits plus costs

*Difficulty: Moderate*

13. According to the fundamental balance equation, how can  $M$ , raw materials and energy extracted from the environment, be reduced?

- A. Reduce  $G$ , the amount of goods produced
- B. Reduce  $R_p$ , residuals from producers
- C. Reduce  $(R_p^r + R_c^r)$ , recyclables from both consumers and producers
- D. All of the above are a method of reducing  $M$

*Difficulty: Moderate*



14. In the figure above, the curve in (a) represents \_\_\_\_\_.

- A. a production possibilities curve
- B. a trade-off between the production of market goods and environmental quality
- C. combinations of outcomes given a fixed endowment and technology
- D. all of the above

*Difficulty: Easy*

15. In the figure above, (b) represents

- A. intertemporal linkage between production decisions today and production ability tomorrow
- B. a change in technology allowing for increased production
- C. the inevitable consequences of air pollution
- D. the role of government

*Difficulty: Easy*

16. \_\_\_\_\_ refers to the quantity of pollutants in the environment

- A. Source
- B. Effluent
- C. ( $R_p^r + R_c^r$ )
- D. Ambient quality

*Difficulty: Easy*

17. \_\_\_\_\_ is the common term for negative impacts produced by environmental pollution on people in the form of health effects and visual degradation as well as negative impacts on the ecosystem.

- A. Disruption
- B. Damages
- C. Effluent
- D. Emissions

*Difficulty: Easy*

18. Although often used interchangeably, \_\_\_\_\_ broadly describes residuals that are placed in the environment and \_\_\_\_\_ is typically used to describe residuals placed in water. A. pollutant ; effluent

- B. effluent; emissions
- C. emissions; effluent
- D. pollutant; emission

*Difficulty: Easy*

19. \_\_\_\_\_ is an environmental media.

- A. Water
- B. Land
- C. Air
- D. all of the above

*Difficulty: Easy*

20. For a given amount of residuals, when we reduce the amount that is emitted into one environmental media,\_\_\_\_\_.

- A. the ambient quality of all surrounding media increases.
- B. the amounts going into other media must increase.
- C. production of goods and services must decrease.
- D. it is impossible to specifically state what happens to other environmental media.

*Difficulty: Moderate*

21. When emissions are mixed and not flowing from a single source, the problem of enforcement to maintain ambient quality is \_\_\_\_\_.

- A. impossible
- B. straightforward
- C. much more complex
- D. all of the above

*Difficulty: Easy*

22. A living resource can be non-renewable.

- A. false; all living resources are renewable
- B. true; if the living resource is rare
- C. true; if the rate of harvest exceed the growth rate of the resource's stock
- D. false; only non-living resources are non-renewable

*Difficulty: Easy*

23. Continued extraction of a non-renewable resource can be sustainable over time if managed properly.

- A. false; all non-renewable resources have a 5 year limit for extraction
- B. true; by definition non-renewable resources will never deplete
- C. true; with continued increases in technology non-renewable resources can last indefinitely
- D. false; non-renewable resources will eventually deplete

*Difficulty: Easy*

24. A classic example of a non-cumulative pollutant is

- A. loud music
- B. acid rain
- C. methane gas
- D. soylent green

*Difficulty: Easy*

25. Estimating damages from cumulative pollutants is complicated because

- A. there is a lack of cause and effect associated with the current emissions and total damages.
- B. the intertemporal dimension makes it more difficult to get people to focus on the damages associated with today's emissions.
- C. people typically discount the effects of future damage.
- D. all of the above

*Difficulty: Moderate*

26. Point-source pollutants

- A. are known for causing greater environmental damages.
- B. typically have international damage components
- C. have a well defined point of discharge.
- D. are typically more difficult to trace to the source of pollution.

*Difficulty: Easy*

27. It is more difficult to develop and administer control policies for \_\_\_\_\_ than it is for \_\_\_\_\_.

- A. local pollutants; regional and global pollutants
- B. air pollution; water pollution
- C. point source pollutants, non-point source pollutants
- D. non-point source pollutants; point source pollutants

*Difficulty: Easy*

28. An example of environmental damage that is not related to emissions is \_\_\_\_\_.

- A. strip mining
- B. logging
- C. the conversion of land to housing
- D. all of the above

*Difficulty: Easy*



29. The policy challenge for continuous emissions is to manage\_\_\_\_\_.
- A. the probability of accidental discharges
  - B. people who frequently cause accidents
  - C. the rate of the discharges
  - D. the likelihood that continuous discharges are damaging

*Difficulty: Easy*

30. The policy challenge for episodic emissions is to manage\_\_\_\_\_.
- A. the probability of accidental discharges
  - B. the likelihood that continuous discharges are damaging
  - C. people who frequently cause accidents
  - D. air pollution in developing nations

*Difficulty: Easy*