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Economics and the Environment, 8e. Review Questions with Answers

Chapter 1: Four Economic Questions About Global Warming

- 1. <u>Greenhouse gases</u> (GHG's) trap reflected heat from the earth's surface and cause global warming. The main GHG is carbon dioxide (CO2).
- 2. The three potential consequences of a gradual global warming are:
 - 1) fall in agricultural output
 - 2) impacts on natural ecosystems
 - 3) sea level rise
- 3. An example of catastrophic impacts from global warming would be collapse of the <u>West Antarctic Ice Sheet</u>. This would raise sea levels by <u>20 feet.</u>
- 4. Preindustrial CO2 levels were about 280 ppm. They are now over 400 ppm.
- 5. Scientists predict that global temperatures over the next 100 years will rise between $\underline{3}$ and $\underline{10}$ degrees F.
- 6. <u>Positive feedback</u> creates an acceleration of global warming; <u>negative feedback</u> creates a deceleration of this warming.
- 7. The <u>Paris Climate Agreement</u> requires participating countries to reduce their emissions of greenhouse gases, based on individual country commitments.
- 8. Three answers to the question "How much is too much?" are:
 - 1) Efficiency
 - 2) Safety
 - 3) Sustainability
- 9. The "net benefits" of environmental protection means the benefits minus the costs.
- 10. The two obstacles standing in the way of effective government action are:
 - 1) Imperfect information
 - 2) Opportunity for political influence
- 11. The three methods government could use to control carbon dioxide emissions are:
 - 1) command-and-control regulation
 - 2) Incentive-based regulation
 - 3) Clean technology promotion
- 12. Since carbon dioxide reduction is a <u>public good</u>, each country would prefer to see others cut back emissions and then <u>free ride</u> on those actions.
- 13. A global <u>cap-and-trade system</u> could transfer resources and technology from rich to poor countries as a result of a treaty governing GHG emissions.