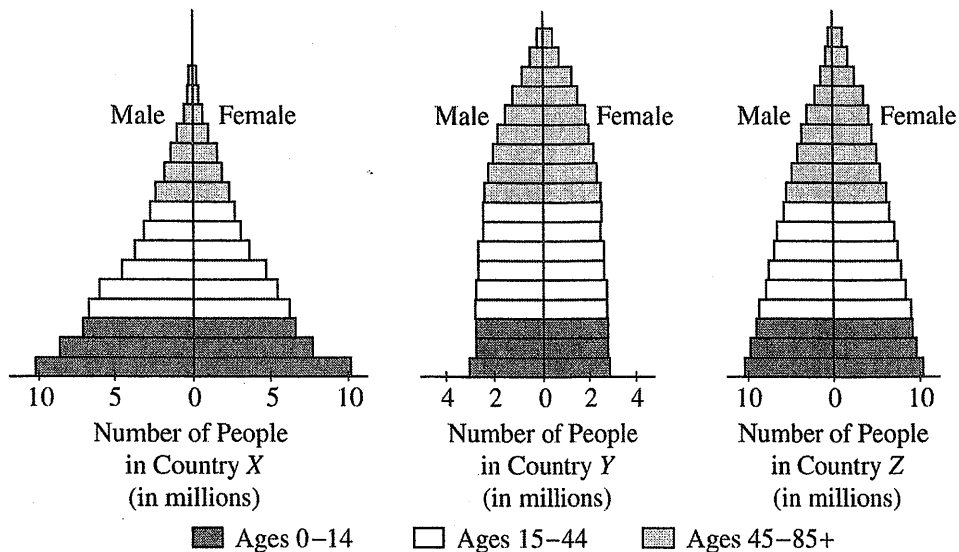


2000 AP® ENVIRONMENTAL SCIENCE FREE-RESPONSE QUESTIONS



4. The figures above show the age structures of human populations in three countries, X, Y and Z.
- Which of the three countries has the largest rate of population growth? Which has the smallest rate? Explain.
 - Compare the infant mortality rates that are likely in Countries X and Y. Explain your reasoning.
 - Describe the changes in both the birth rate and the death rate for a country making the transition from a preindustrial society to an industrial society.
 - Describe one incentive that the government of a country could offer its citizens that would favor a reduction in the growth rate of its population. Explain how this incentive would work, and describe one possible drawback.

END OF EXAMINATION

2013 AP[®] ENVIRONMENTAL SCIENCE FREE-RESPONSE QUESTIONS

4. Biological diversity, or biodiversity, has become a topic of great concern among conservationists. Biodiversity is often used by scientists and policy makers to help determine the health of ecosystems.
- (a) **Describe** TWO characteristics shared by ecosystems that have high biodiversity.
 - (b) **Identify** TWO specific human activities that result in a loss of biodiversity, and **explain** how each activity lowers biodiversity.
 - (c) For each human activity you discussed in (b), **propose** a practical strategy (other than simply banning the activity) to reduce the loss of biodiversity.
 - (d) **Describe** ONE naturally occurring factor that could lead to a loss of biodiversity.
 - (e) **Describe** TWO ecological benefits that greater biodiversity provides.

STOP

END OF EXAM