**APES Study Guide**

**Unit 5: HUMAN POPULATION & HEALTH**

***DUE****: Due on day of unit test.*

*Directions:**Answer each question in complete sentences.* ***Must be handwritten in order to receive credit.***

**Textbook Reference:**

Chapter 6 – The Human Population and Its Impact

Chapter 17 – Environmental Hazards and Human Health

**Vocabulary:**

*Directions: Review key vocabulary, words may appear in quizzes and/or tests. You are not required to write the definitions but are encouraged to review them.*

Chapter 6

age structure

birth rate

crude birth rate (CBR)

crude death rate (CDR)

cultural carrying capacity

death rate

demographic transition

family planning

fertility rate

infant mortality rate (IMR)

life expectancy

migration

population change

replacement-level fertility

total fertility rate (TFR)

Chapter 17

carcinogens

dose

dose response curve

emergent disease

infectious disease

mutagens

nontransmissible disease

pathogen

response

risk

risk analysis

risk assessment

risk management

teratogens

toxic chemical

toxicity

toxicology

transmissible disease

**Study Guide Questions (SGQ):**

*Directions:**Answer each question in your own words as you read through the text. Answers must be in* ***complete handwritten sentences.***

Chapter 6

1. List three factors that account for the rapid growth of the world’s human population over the past 200 years.
2. What five countries had the largest numbers of people in 2010?
3. Describe ways in which we have used technology to alter nature to meet our growing needs and wants.
4. Explain why reaching the replacement-level fertility rate will not stop global population growth until about 50 years have passed (assuming that death rates do not rise).
5. Describe what has happened since 1950 to total fertility rates in the world, in China, and in the United States.
6. Describe population growth in the United States and explain why it is high compared to those of most other more-developed countries and China. Is the United States over-populated? Explain.
7. List factors that can affect the birth rate and fertility rate of a country.
8. Why does the United States have a lower life expectancy and higher infant mortality rate than a number of other countries?
9. Describe immigration into the United States and the issues it raises.
10. What is the age structure of a population? Explain how it affects population growth and economic growth.
11. Describe the American Baby Boom and some of the effects it has had on American culture.
12. What are some problems related to rapid population declines due to an aging population?
13. How has the AIDS epidemic affected that age structure of some countries in Africa?
14. What is the demographic transition and what are its four stages?
15. What factors could hinder some developing countries from making this transition?
16. Describe the roles of reducing poverty, elevating the status of women, and family planning in slowing population growth.

Chapter 17

1. Describe the potential risks from exposure to trace amounts of hormone mimics such as bisphenol.
2. Give an example of a risk from each of the following: biological hazards, chemical hazards, physical hazards, cultural hazards, and lifestyle choices.
3. In terms of death rates, what are the world’s four most serious infectious diseases?
4. Describe the causes and possible solutions for the increasing genetic resistance to commonly used antibiotics.
5. Describe the global threat from tuberculosis (TB).
6. Describe the threat from flu.
7. Describe the health threats from the global HIV/AIDS pandemic and list six ways to reduce this threat.
8. Describe the threats from the hepatitis B virus.
9. Describe the threat from malaria for 40% of the world’s people and how we can reduce this threat.
10. List five major ways to reduce the global threat from infectious diseases.
11. Discuss the threat from PCBs.
12. Describe the human immune, nervous, and endocrine systems and give an example of a chemical that can threaten each of these systems.
13. Describe the toxic effects of the various forms of mercury and ways to reduce these threats.
14. What are hormonally active agents, what risks do they pose, and how can we reduce these risks?
15. Describe how the toxicity of a substance can be estimated by testing laboratory animals, and discuss the limitations of this approach.
16. Why do we know so little about the harmful effects of chemicals?
17. Discuss the use of the precautionary principle and pollution prevention in dealing with health threats from chemicals.
18. In terms of premature deaths, what are the three greatest threats that humans face?
19. Describe the health threats from smoking and what we can do to reduce these threats.
20. How can we reduce the threats from the use of various technologies?