Chapter 17 Spark Note Review Questions

1. Describe the potential risks from exposure to trace amounts of hormone mimics such as bisphenol A.
2. Define risk and distinguish between risk assessment and risk management.
3. Distinguish between possibility and probability.
4. What is a pathogen?
5. Give an example of a risk from each of the following:
6. Distinguish among an infectious disease, a transmissible disease, and a nontransmissible disease, and give an example of each.
7. In terms of death rates, what are the world's four most serious infectious diseases?
8. Distinguish between an epidemic and a pandemic of an infectious disease.
9. Describe the causes and possible solutions for the increasing genetic resistance to commonly used antibiotics.
10. Describe the global threat from tuberculosis (TB).
11. Describe the threat from flu.
12. Describe the health threats from the global HIV/AIDS pandemic.
13. Describe the threats from the hepatitis B virus.
14. Define emergent diseases and describe the threat from the West Nile virus.
15. Describe the threat from malaria for 40% on the world's people and how we can reduce this threat.
16. Give three examples of problems being studied within the new field of ecological medicine. .
17. What are two ways in which people have exposed themselves to such threats?
18. What is a toxic chemical?
19. Distinguish among mutagens, teratogens, and carcinogens, and give an example of each.
20. Describe the human immune, nervous, and endocrine systems and give an example of a chemical that can threaten each of these systems.
21. Define toxicology, toxicity, dose, and response.
22. Give three reasons why children are more vulnerable to harm from toxic chemicals than are adults.
23. Describe how the toxicity of a substance can be estimated by testing laboratory animals, and discuss the limitations of this approach.
24. What is a dose-response curve?
25. How are toxicities estimated through use of case reports and epidemiological studies. Why are case reports not considered to be reliable?
26. Why do we know so little about the harmful effects of chemicals?