

APES Unit 8 Review Packet: *This review packet is meant to help prepare you for your exam, but it should not be the only thing that you use to study. This packet provides you with the opportunity to practice the skills necessary for your exam.*

Part 1: Review Questions – Surface Layer

1. What are the four environmental health hazards?
2. Be familiar with several case studies discussed in class regarding chemical hazards. (BPA in water bottles, atrazine as an endocrine disruptor, lead poisoning in Flint, MI)
3. Define an infectious disease. How are these different from other diseases?
 - a. Identify and describe infectious diseases
4. What are the types of toxicants discussed?
5. What is an endocrine disruptor and how do they work?
6. What is pesticide drift, and which areas are the most affected by it?
7. Compare and contrast bioaccumulation and biomagnification.
8. **Describe dose-analysis response in terms of LD50/ED50.**
 - a. **Be capable of analyzing graphs in relation to this topic**
9. What is the first step in risk analysis management?
10. Compare and contrast “guilty until proven innocent approach” vs. precautionary principle.
11. Describe regulatory policy in the United States and internationally.
12. Be familiar with Silent Spring and what reaction it caused in terms of DDT
13. Be familiar with the major categories of water pollutants.
14. Know the importance of testing for water quality.
15. What does dissolved oxygen level indicate about the water quality?
16. Know what eutrophication and oligotrophic waters are. (Harmful Algal Blooms as well)
17. Understand how dead zones form and what they are.
18. Know the difference between nonpoint and point pollutants.
19. Understand how groundwater pollution is created.
20. Understand how sanitary water treatment facilities work.
21. Know how plastic pollution affects the ecosystem, organisms, and the risk this means on human health.
22. Understand how urbanization affects the ecosystems surrounding it.
23. Understand how urbanization causes pollution in the form of water pollution, noise pollution, and terrestrial pollution.
24. Understand how solid waste treatments work.
25. Be familiar with the Clean Water Act (required legislature for this course) and what it regulates.
26. Be familiar with the Safe Drinking Water Act.

Part II: Complete the Personal Progress Check Questions on AP Classroom for test question practice.