

## **EXAM NINE EXPECTATIONS**

### **ENVIRONMENTAL SCIENCE EXAM NINE “Air & Water Pollution”**

**STATE** the two most important atmospheric gases for humans and other organisms  
**STATE** the most abundant gas in the atmosphere  
**STATE** the source of most river pollution  
**STATE** the protocol that sought to decrease the production of chlorofluorocarbons (CFC's)  
**STATE** the pH of natural rainfall  
**STATE** the leading cause of death of children worldwide  
**STATE** the city with the worst air pollution in the world  
**DEFINE** B.O.D  
**LIST** health problems associated with volatile organic compounds (VOC's)  
**LIST** the main sources of primary air pollutants  
**LIST** sources of chlorofluorocarbons (CFC's)  
**LIST** diseases that are transmitted through contaminated food and water (according the text)  
**LIST** health issues related to cigarette smoking  
**LIST** ecosystem services provided by the atmosphere  
**LIST** examples of point and nonpoint pollution  
**LIST** the negative impacts of air pollution  
**IDENTIFY** a major effect for each air pollutant mentioned in the text  
**OUTLINE** sediment pollution  
**OUTLINE** turbidity  
**OUTLINE** electrostatic precipitators  
**OUTLINE** catalytic converters  
**OUTLINE** the elimination of sludge from water treatment facilities  
**OUTLINE** carbon monoxide poisoning  
**OUTLINE** the effects of overexposure to UV light  
**OUTLINE** the production ozone  
**ANALYZE** a graph  
**DESCRIBE** the release of sewage into bodies of water (include effects)  
**DESCRIBE** each layer of the atmosphere  
**DESCRIBE** e-coli as it relates to this chapter on water pollution  
**DESCRIBE** water treatment (of sewage)  
**DESCRIBE** water treatment (of drinking water)  
**DESCRIBE** radon pollution  
**COMPARE** the amount of solar radiation in urban and rural areas at the same latitudes  
**COMPARE** photochemical smog and industrial smog  
**COMPARE** asthma, emphysema and bronchitis  
**COMPARE** mercury and lead pollution  
**COMPARE** oligotrophic and eutrophic lakes  
**COMPARE** point source pollution and nonpoint source pollution  
**COMPARE** primary and secondary air pollutants  
**COMPARE** the effects of air pollution on children and adults  
**COMPARE** the role and effects of ozone at different layers in the atmosphere  
**EXPLAIN** eutrophication  
**EXPLAIN** acid deposition  
**EXPLAIN** the effects of pollution in river from its source and downstream until its effects are minimal  
**EXPLAIN** temperature inversions  
**EXPLAIN** the Clean Air Act  
**DISCUSS** the “dead zone” in the Gulf of Mexico