

Environmental Science- Final Exam Review

1. Define urbanization
2. Define urban crisis
3. Define urban sprawl
4. Define urban
5. Define rural
6. Define ecosystem services
7. Define urban heat island
8. Define green space
9. Define ecological footprint
10. What threats affect each type of land?
 - a. Farm Land
 - b. Forest Land
 - c. Ranch Land
 - d. Cities
11. Which type of country has the largest ecological footprint? Developed or developing?
12. What southeast city experiences environmental issues as a result of the urban heat island effect?
13. What are the side effects of urban heat islands?
14. Are public lands used only for recreation? What other activities can they be used for?
15. In what type of area do most Americans live?
16. What happens when cities grow too fast?
17. List 5 examples of ecosystem services?
18. What caused the beginning of the movement of people to the cities?
19. List 5 benefits of green spaces.
20. What does the 1872 Mining Law allow?
21. Do our national forests allow the harvesting of trees?
22. Who makes the decisions on how to build, improve, or expand cities?
23. Define salinization
24. Define desertification
25. Define biological pest control
26. Define marasmus
27. Define kwashiorkor
28. Define bioaccumulation
29. What are the guidelines for organic farming?
30. What % of earth has fertile soil?
31. How is irrigation water different from rain water?
32. How and why has Golden rice been altered?
33. What does the RoundUp Ready products allow farmers to do?
34. Frost free strawberries have DNA added from what organism?
35. How did the deserts of Lebanon and Syria used to look?
36. Is loss of topsoil considered a serious problem by environmentalists?
37. What is the leading cause of soil loss?
38. List 5 methods to conserve soil (stop soil loss).
39. List 4 examples of biological pest controls.
40. What happened to cause 1 million people to starve to death in Ireland in 1845?
41. Why is DDT harmful to the environment?
42. List all 5 ingredients of topsoil.
43. What 2 events caused the Great Dust Bowl of the 30s?
44. Do genetically modified foods have to be labeled in US?
45. What is erosion and why does it occur?
46. Define nuclear fission
47. Define coal
48. Define oil
49. Define solar
50. Define wind
51. Define geothermal
52. Define biomass
53. Define hydroelectric
54. Define renewable

55. Define nonrenewable
56. Which energy source puts radioactive particles into the air?
57. What was the Exxon Valdez?
58. What occurred in the Chernobyl accident?
59. Has the environment surrounding the Chernobyl accident site successfully recovered? Explain.
60. Circle all of the energy sources that **do not** release carbon dioxide?
61. Solar wind coal oil natural gas biomass
62. hydroelectric nuclear fission geothermal
63. List all renewable energy sources.
64. List all nonrenewable energy sources.
65. Why are fossil fuels considered a nonrenewable energy source?
66. Why are fossil fuels used more than any other energy source?
67. What percent of the United State's energy from renewable sources?
68. Which country uses the most energy in the world?
69. Describe the process by which nuclear power plants produce energy.
70. Why is Florida a good state to use biomass?
71. What does "geothermal" mean literally?
72. What is "closing the loop"
73. What are two problems associated with modern landfills?
74. List at least three examples of hazardous wastes.
75. What can the methane gas that is emitted from landfills be used to produce?
76. Why is recycling materials beneficial?
77. How many of the superfund sites in the US have been cleaned up?
78. What does biodegradable mean?
79. What is MSW?
80. What is leachate?
81. What type of waste is greatest in MSW landfills?
82. What 3 things are modern sanitary landfills lined with?
83. What are the two most important organisms make things decompose?
84. What type of plastic breaks down in sunlight?
85. What does the Superfund Act allow?
86. What does the Resource Conservation and Recovery Act require?
87. Explain the pros and cons of incinerators.
88. What was built on top of the Love Canal dump site?
89. Does trash rot in landfills?
90. Who can take hazardous waste to HEC3?
91. True or False: There is no need to sort trash because it will be sorted at the waste management location.
92. True or False: Americans are producing trash at an alarming rate.
93. True or False: Recycling is only beneficial if it reduces landfill use.
94. True or False: Landfills pollute the environment.
95. How much more water does the average American consume in comparison to a European?
96. True or False: More people on Earth have a cell phone than people who have access to freshwater.
97. Define potable.
98. How much water on Earth is potable?
99. Does the amount of water on Earth ever change?
100. What has made Mexico City sink 30 feet?
101. List three examples of surface water.
102. What is the relationship between groundwater and surface water?
103. List at least three uses of freshwater.
104. List at least three ways a person could conserve water.
105. Why are wetlands important?
106. Where do Floridians get most of their drinking water?
107. What causes water to move through the water cycle?
108. On average, how long does it take for water to move through the water cycle?
109. What type of rock is the Floridan Aquifer made of?
110. What are the main causes of Florida's water scarcity issues?
111. What is main source of water consumption in the state of Florida?
112. What is run-off?
113. What is the aquifer?
114. In what direction does run-off flow?

115. How could plastic trash in the ocean harm marine animals?
116. What is a watershed?
117. Explain the difference between point and non-point pollution sources? Provide an example of each type of pollution.
118. Would point or non-point pollution be the easiest to prevent? Explain.
119. List and briefly explain the eight types of water pollution we discussed in lecture.
120. Explain the process of eutrophication.
121. What is a common feature of thermal pollution and eutrophication?
122. Why should pregnant women avoid large quantities of fish?
123. The clean air act caused what metal to be removed from gasoline?
124. What layer of the atmosphere is the ozone layer found?
125. List four common illnesses caused by air pollution.
126. List 5 changes predicted to occur from global warming.
127. What pollution destroys ozone?
128. Ozone protects us from what?
129. What is ozone's molecular makeup?
130. List products that contain asbestos.
131. How many times more acidic is pH 4 than pH 5?
132. What is the cause of global warming?
133. What 2 pollutants cause acid rain?
134. Rain is considered acid at what pH?
135. What are the two main gasses in our atmosphere and their percentages?
136. List 2 natural and 2 unnatural types of air pollution.
137. List all the forms that acid precipitation can be in.
138. Which layer of the atmosphere does all life and weather occurs in?
139. Explain what radon is and where it comes from.
140. List all 5 greenhouse gases.
141. What types of cities can have thermal inversion problems?
142. Is the greenhouse effect good or bad for life on earth?
143. Cars cause _____ of our air pollution problems.
144. A pH of 2 is _____ times more acidic than a pH of 5.
145. What is the #1 most polluted city in the nation.
146. What is ocean acidification?
147. Why are coral reefs and phytoplankton in trouble?
148. Define sustainability.