**Chapter 13**

1. Summarize the importance of the Colorado River. How are human activities stressing this river? Where does the river gets its water?  What is the major use of the water? What is a drought?
2. What is Freshwater? Why is access to freshwater a health issue, an economic issue, and an environmental issue?
3. Define *groundwater, zone of saturation, water table, aquifer, and surface water.* What is a *watershed?* What is *surface runoff* and what % of all precipitation is it?
4. What is *reliable surface water*? How is most of the water used? Define and give an example of a *water footprint.* What is *virtual water* and give 3 examples of it.
5. What are the advantages and disadvantages of withdrawing groundwater? Discuss India, China and Saudi Arabia.   What is happening to the Ogallala Aquifer in the USA? What does a slow recharge mean? List 2 problems associated with over pumping of aquifers. What are 4 main concerns about using deep aquifers?
6. What is a dam? Reservoir?  List some advantages and disadvantages of using these methods of getting water. What has happened to the flow of the Colorado River since 1960? What has happened to its delta? What are some other problems the Colorado has and what are some solutions.
7. What is a water transfer? Describe the water transfer in California and that of the Aral Sea. How did they come about?  What was the result for the Aral Sea? What is the controversy in California?
8. What is desalination? What are 3 major limitations of desalination?
9. What is a floodplain? List the advantages and disadvantages of living on the floodplain. Name 2 activities of humans that increase the risk of flooding. What problems do the people of Bangladesh face? What are 2 engineering techniques and 2 ecological techniques used to control flooding?
10. Summarize a key lesson learned from the following case studies: China’s Three Gorges dam and Egypt’s Aswan High Dam.  Use the internet if necessary