

Collage of Engineering
Department of Chemical Engineering
Chemical Industries CHE 214
Chapter Two - Homework 2

1. Define the following terms?
 - a. Potable water.
 - b. Turbidity
 - c. Coagulation
 - d. Flocculation
2. Mention three sources of water and give two example of each source?
3. Mention two contaminants present in each source of water?
4. Mention three chemical compounds used in water softening?
5. Mention three of physical and chemical characteristics of water?
6. Give short note about the Jar test apparatus and its uses?
7. Name three chemical coagulants added to water (or wastewater) in order to achieve coagulation?
8. Classify the main stages of water purification process?
9. Briefly explain with the block diagram the stages of surface water purification.
10. Explain why chlorine (and its compounds) is widely used for the disinfection of water?
11. Give short note about the uses of sedimentation?
12. Mention three types of sand filters?
13. Define water softening? And briefly explain with balance chemical equations the softening process?