Higher technological institute 10th of Ramadan city 6th of October branch Civil Engineering department

Subject: water and waste water treatment Dr. Marry Shafik Eng. Ahmed Alaa El-Din

Sheet (2)
Treatment works (sedimentation)

- 1 State the water treatment works for surface water and the types of sedimentation
- 2 Draw a flow line of (S.S.F) and (R.S.F) water treatment plant
- 3 What is the coagulation process and what is the purpose of coagulation process
- 4 What is the kinds of coagulants and what is the advantages of coagulant aids
- 5 state the coagulation process steps and the kinds of feeding
- 6 Explain with drawing the (Jar test)
- 7 What is the purpose of (Alum solution tank Flash mixing tank Flocculation tank plain sedimentation tank chemical sedimentation tank) and draw the section elevation of these tanks
- 8 For a city with population 150000 capita and the average water consumption 250 L/c/d, Design (Alum solution tank Flash mixing tank Flocculation tank –sedimentation tank with hopper) if the working period 20 hr/d, S.S = 70 ppm