

Iqra National University
Department of Civil Engineering

Final-Term Assignment Summer - 2020

Discipline: BS Civil Engineering
Course Title: Water Supply Engineering
Date: August 26, 2020

Note: You have total 6 hours to upload your answers on SIC. Your responses should be brief, relevant and in your own words. Please do not write long stories. Feel free to contact me in case of any clarification required.

Q1. Briefly describe Coagulation and Flocculation processes and their purposes? What coagulants are normally used for water treatment? **(15 Marks)**

Q2. What is main purpose of water filtration? Briefly describe difference between Slow Sand Filter and Rapid Sand Filter? **(15 Marks)**

Q3. Why water disinfection is undertaken and what methods are normally employed for water disinfection? **(10 Marks)**

Q4. Enlist various drinking water quality parameters and write down health impacts of any of 5 water quality parameters if their concentrations exceed National Quality Standards? **(10 Marks)**