

**Iqra National University**  
**Department of Civil Engineering**

**Final-Term Assessment Spring 2020**

<b>Discipline:</b>	BS Civil Engineering
<b>Course Title:</b>	Wastewater Engineering
<b>Course Code:</b>	CE- 421
<b>Date:</b>	June 27, 2020

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**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. Each question carries 10 marks.**

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Q1. What is wastewater treatment and its importance? Why rectangular tanks are preferred over circular tanks for removal of settleable solids during preliminary treatment?

Q2. What is the difference between aerobic and anaerobic wastewater treatment? Briefly describe Activated Sludge Process with diagram?

Q3. What is meant by assimilative capacity of receiving water bodies? How does it help in wastewater treatment?

Q4. Briefly describe sludge management and its advantages in wastewater engineering?

Q5. Define Environmental Impact Assessment (EIA)? In your opinion, what parameters should be considered while conducting EIA for newly proposed wastewater treatment plant?