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School of Engineering**B.TECH Civil Engineering
Mid Term Examination - Nov 2023****Duration : 90 Minutes
Max Marks : 50****Sem V - G1UA502T - Water Supply and Treatment Systems**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Outline some common water supply treatment problems? K2 (2)
- 2) Define sustainable development and which sustainable development goals deals with water? K1 (3)
- 3) Why it is important to control water quality in nature and in community? K2 (4)
- 4) Explain the causes of the turbidity in water. How do you measure it? K2 (6)
- 5) Identify various steps or methods involved in the purification of water. K3 (6)
- 6) Examine the function of coarse and fine screen based on the size of the screen and incoming particle size. K3 (9)
- 7) Compare the water demand and usage in an industry and in a domestic setup. K4 (8)
- 8) An experiment was performed on wastewater sample. Following were the readings observed during the experiment (Table). Estimate the average value of BOD. K4 (12)

OR

Compare the theory/mechanisms of slow sand and rapid sand filtration? K4 (12)