

M.Sc. (Part-II) (Environmental Science) (CBCS Pattern) Semester-III
PSCENVT10 - Core Paper-X : Waste Water Treatment

P. Pages : 1

Time : Three Hours



GUG/S/25/11261

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate the answers with suitable diagrams and example.

1. Discuss physical methods for the analysis of sewage. 16

OR

a) Explain the system of wastewater collection. 8

b) Explain the measurement of wastewater flow using the dray flow method. 8

2. Discuss the design of screen chambers and grit chambers. 16

OR

a) Briefly explain the construction and maintenance of sewers. 8

b) Explain the design of the sludge drying bed. 8

3. Discuss the primary treatment process using a sedimentation tank. 16

OR

a) Explain mixing devices for coagulation. 8

b) Describe the classification of wastewater treatment methods. 8

4. Discuss the action of activated sludge and the different methods of aeration. 16

OR

a) Explain the working of rotating biological contractors. 8

b) Write a brief account of oxidation ditch. 8

5. a) Explain the cycles of decomposition of the sewage. 4

b) Draw and explain wastewater treatment plant layout. 4

c) Write about the operation of the skimming tank. 4

d) Write a brief note on the disposal of sewage. 4
