

M.Sc. (Part - II) (Environmental Science) CBCS Pattern Semester-III
PSCENVT09 - Water Treatment and Supply

P. Pages : 1

Time : Three Hours



GUG/W/23/11260

Max. Marks : 80

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

1. Discuss quality of water w.r.t. physical parameters of water. **16**
- OR**
- a) Explain impurities in water. **8**
- b) Give types of wells in detail. **8**
2. What is aerator? Give the types of aerator in detail. **16**
- OR**
- a) Draw schematic layout of water treatment plant. **8**
- b) Explain working of horizontal sedimentation tank. **8**
3. Discuss construction and operation of rapids and filter. **16**
- OR**
- a) What is flocculation? Explain it. **8**
- b) Explain chlorination method as disinfection of water. **8**
4. Discuss classification of pumps. **16**
- OR**
- a) Explain gravity system of water distribution. **8**
- b) Give the necessity of pumping. **8**
5. a) Write a note on estimation of population. **4**
- b) Explain preliminary treatment of water w.r.t. screening. **4**
- c) What is ozonation process. **4**
- d) Briefly explain how prevention of leakages is carried out. **4**
