

B.Arch. Seventh Semester (Architecture Engineering) (CGS)

10058 : Environmental Services - I

7 AR 02

P. Pages : 1

Time : Three Hours



AV - 3082

Max. Marks : 80

- Notes :
1. All question carry marks as indicated.
 2. Answer **Four** question.
 3. Question No. **5** is compulsory.
 4. Illustrate your answer necessary with the help of neat sketches.
 5. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) What do you mean by the term water pollution. How it has been taken place. Describe physical water pollution. **12**
b) Describe with neat sketches the under ground sources of water supply. **8**

OR

2. a) Describe River as a principal source of water supply for most of the water supply scheme. **8**
b) Distinguish between Gravity system and pumping system of water supply. **6**
c) Describe various sources of water pollution. **6**

3. a) Describe with neat sketches the various recycling methods of garbage disposal. **8**
b) State & Explain the important stages involved in sewage treatment. **12**

OR

4. a) Explain gravity and gravity & pumping systems. State it's advantages and disadvantages. **8**
b) Compare continuous systems of water supply with intermittent systems of water supply. **12**

5. Describe the following with sketches **any four**. **20**
a) Solid waste disposal in multistorey building.
b) Sedimentation of sewage.
c) Sewage sickness.
d) Land treatment methods of sewage disposal.
e) Vermicomposition.
f) Storm water disposal system.
g) Physical water pollution.

6. a) Explain the function, working of a Bio – gas plant. **7**
b) Explain Drainage disposal in high rise building. **5**
c) Describe with the help of neat sketch the importance and working of oxidation pond. **8**

OR

7. Explain any of the following. **20**
a) How will you carry out sewage disposal in rural areas.
b) Explain with the help of neat sketch Aeration of water.
c) Why disinfection of water is to be carried out and explain various type's of disinfectants used in the process of disinfection.
