



RAN-1096

B.Sc. (Environmental Science) Semester - V Examination

March / April - 2019

Water Pollution and Treatment

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

B.Sc. (Environmental Science) Semester - V

Name of the Subject :

Water Pollution and treatment

Subject Code No.: 1 0 9 6

Seat No.:

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Student's Signature

Instructions:

1. Figures to the right indicate full marks of the question.
2. Draw neat and labeled diagrams whenever necessary.

Q.1 Give specific answers of the following:

12

- 1 How can chlorinated hydrocarbon insecticides are threatening to aquatic ecosystem?
- 2 What are the chemical coagulants commonly used in coagulation process?
- 3 Write the sources of surface water pollution.
- 4 On which factors biological treatment of sewage depends?
- 5 Give the difference between Aerobic and Anaerobic processes in sewage treatment?
- 6 What is the importance of segregation of wastes and by product recovery in industrial waste treatment?

- Q.2 Explain the following: (Any Two) 12**
- 1 Describe lime soda method with its merits and demerits.
 - 2 Explain following procedures involved in Industrial waste water treatment.
 - (a) Adsorption of pollutants.
 - (b) Neutralization of acids and bases.
 - 3 How are pesticides endanger to Aquatic Biota?
- Q.3 Comment on the following: (Any Two) 16**
- 1 Tertiary treatment of Industrial wastewater is the final treatment meant for polishing the secondary effluents
 - 2 By reducing the volume of waste, effect of industrial waste water can be minimized.
 - 3 Agricultural wastes harm the environment.
- Q.4 Write Short Notes on following: (Any Two) 10**
- 1 Demineralization process.
 - 2 Effect of fertilizer on Man and Animal
 - 3 Trickling filters.
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