B.Tech 6th Semester (Civil) F-Scheme Examination,

SEWAGE AND SEWAGE TREATMENT

Time allowed: 3 hours]

Note : (i)

- May-2017

 EWAGE AND SEWAGE TREATMENT

 Paper-CE-308-F

 [Maximum marks: 100 Statement total five questions, at least one from the each section.

 May-2017

 [Maximum marks: 100 Statement total five questions, at least one from the each section. each section.
- What is importance of dilution with aeration for
- 3 BOD test?

 State the principle involved in sedimentation popular.
- 0
- 9
- <u>e</u> Classify the sludge treatment of Classify the Sludge treatment of

Unit-I

2. (a) A 60 cm diameter sewer is to discharge 0.07 To cumecs at a velocity as self- cleansing as a sewer of flowing full at 0.85 m/sec. Find the depth and uniform value of N=0.015. velocity of flow and the required slope. Take >

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Do

3 (a) Draw and explain the trap used in residential buildings.

3 Write the methods of collection of waste from houses and buildings.

Unit-II

- 4 (a) A stream, saturated with DO, has a flow of DO deficit at point 20 km and 40 km downstream. rate constant 0.13 per day. The average velocity 0.25m3/s having BOD 20 mg/l, DO 5mg/l and per day. It receives an effluent discharge of saturation DO at 20°C as 9.17 mg/1. tout and BOD is measured at 5 days. Take Assume that the temperature is 20°C through of flow of the stream is 0.18/s, calculates the 1.3m³/s, BOD of 4mg/l and rate constant of 0.3
- 3 for it. What is meant by disposal of wastewater by dilution? Mention the conditions favourable
- in (a) Describe the Banglore method of disposal. 10

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(b) Discuss the waste disposal by irrigation.

Unit-III

- 9 (a) What is coagulation? Write advantages and disadvantages of coagulation. lentSuvidha.com
 - 9 Write working of Humus tank

10

- .7 (a) Write a short note on stabilization pond. 10
- 3 Draw a flow chart for ASP.

10

- 00 (a) Do comparison between noise and sound. Write the source and their level of noise.
- 9 How to control noise in Industries?

5

- 9 (a) Classify various types and sources of air pollution.
- 9 What do you understand by aerosols? Describe various types of aerosols along with their characteristics. and papers

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