

TE Sem VI CBGS - ~~EEI~~ Civil Nov-Dec-15

EEII - 14112115

Sub! - EE - II

Civil

Q.P. Code : 6420

ce 6 sem environmental engineering-i dec 2015

(3 Hours)

[Total Marks : 80

Note: 1) Question No. 1 is compulsory

2) Attempt any three Questions from remaining five.

Q.1 a) Explain the necessity of planned water supply scheme.

b) what is turbidity? How it is measured and give its unit.

c) what are the factors affecting sedimentation process?

d) What are the factors affecting location of intake structure.

Q.2 a) Explain the advantages of radial water distribution system.

b) Draw the layout of water treatment plant and explain function of each unit.

c) Write a short note on tube settlers.

Q.3 a) Explain the various disinfectants used in water treatment.

b) The maximum daily demand of water treatment plant has estimated as 9MLD. Design

a suitable sedimentation tank assuming detention period of 4hrs and velocity of flow 25 cm/min.

Q.4 a) what are the factors affecting composting process.

b) Explain the operational troubles in rapid sand filter.

c) Explain zeta potential.

Q.5 a) Explain testing of water pipeline.

b) Explain any one method of hardness removal.

c) Design a rapid sand filter for 4MLD water supply with its principal components.

Q.6 a) What is leachate? How leachate movement is controlled in landfill.

b) Explain the characteristics of hazardous waste.

c) Give the various coagulant used in water treatment.



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