S.No.: 277

BCE 3602

No. of Printed Pages: 03

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B. Tech. Examination 2021-22

(Even Semester)

ENVIRONMENTAL ENGINEERING-II

Time: Three Hours] [Maximum Marks: 60

Note: Attempt all questions.

SECTION-A

- Attempt all parts of the following: 8×1=8
 (a) Write full form of BOD and COD.
 - (b) Zero hardness of water is achieved by.....
 - (c)method help in disinfecting water.
 - (d) Define coagulation.
 - (e) Activated sludge process is an example of...
 - (f) Which method is used to forecast of old and very large city?

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- (g) As per 1S 1050-1991, maximum lead content allowed us drinking water is.....mg/l.
- (h) What is the detention tine of grit chamber?

SECTION-B

- 2. Attempt any two parts of the following: $2 \times 6 = 12$
 - (a) Discuss the working of intermittent sand fillter.
 - (b) Discuss any two types of sludge disposal.
- (c) Determine ultimate first stage BOD for a waste water having 5 day BOD at 20° C as 160 mg/l. Assume de oxygenation at 20°C as 0.2 per day.
 - (d) Explain factor affecting storm water flow.

SECTION - Correct Management A

- **Note:-** Attempt all questions. Attempt any two parts from each questions. $8 \times 5 = 40$
- 3. (a) Define self cleansing valocity and its significance.
 - (b) Differentiate between dry weather flow and wet weather flow.
 - (c) Explain oxloation ditch with a neat sketch.

- 4. (a) Write notes on sludge thickening.
 - (b) Explain the working of an automatic flush tank.
 - (c) Explain sludge volume index.
- 5. (a) What are the disadvantage of oxidation pond?
 - (b) Discuss any two draw backs of UASB.
 - (c) Define sludge disposal.
- 6. (a) Explain the working of sludge blanket reactor.
 - (b) Define aerated lagoon
 - (c) Explain in short about the role of micro organisms in waste water treatment.

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