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LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR

B.E. 6th SemesterMID SEM EXAMINATION

Date/Day : 04/03/15 , Wednesday
 Subject Name : (CV604) Environmental Engineering-II
 Time : 12:00 Noon To 1:30 pm

Branch : Civil Engineering
 Max. Marks : 30

- Instructions:**
- 1) All questions are **compulsory**
 - 2) Figures to the **right** indicate full marks.
 - 3) Indicate **clearly**, the options you attempt along with its respective question number.

- Q.1 (a) Explain in brief following terms: [5]
 (i) Sub-Soil water (ii) Siphonage Pipe (iii) Sanitary sewage (iv) Sewage (v) Vent Pipe
 (b) What do you mean by self purification? Explain with neat sketch of the oxygen sag curve. [5]
- Q.2 (a) Draw a neat sketch of typical layout of house drainage & give classification of traps. [5]
 (b) Write short note on selection of types of sewage pump. [5]
- OR**
- Q.2 (a) Draw layout of waste water treatment plant. & explain function of any two units. [5]
 (b) 8 ml of raw sewage was diluted by specially prepared water, in a 300ml capacity of BOD bottle. The DO concentration of the diluted sample at the beginning of the test was 12 mg/l and 9 mg/l after 5days incubation at 20°C. find the BOD of raw sewage. [5]
- Q.3 Design bar screen for a peak average flow of 70 MLD. (Assume other data) [10]
- OR**
- Q.3 (a) Write detail note on testing of sewers. [5]
 (b) Describe with neat sketches various types of joints used in sewer lines. [5]

*****All THE BEST*****