**D.Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY**

**Set-: II**

**Q. Paper Code:**

**22CE302502**

**KASABA BAWADA KOLHAPUR-416006**

**(An Autonomous Institute)**

T. Y. B. Tech (Civil), Sem-V

**END SEMESTER EXAMINATION (ESE), Nov. – 2022**

Course Name: Environmental Engineering Course Code: 201CEL302

Seat No:

**Day and Date: Thursday, 08.12.2022**

**Time: 2.00 pm to 4.00 pm Max. Marks- 50**

***Model ANS***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **BT** | **CO’s** | **Q. No.** |  | **Marks** |
|  |  | **Q.1** | **All Questions are compulsory** | **20** |
| **2** | **CO1** | **a** | Breakup of domestic water utilization in liters---------3 marks  Effect of various factors on consumption of water---------3 marks | **6M** |
| **2** | **CO2** | **b** | Breakpoint chlorination;  Explanation---------4 marks  Sketch---------2 marks | **6 M** |
| **2** | **CO3** | c | Service connection:  Sketch---------2 marks  Function of various components---------6 marks | **8 M** |
|  | | | | |
|  |  | **Q.2** | **All Questions are compulsory** | **10** |
| **2** | **CO1** | **a** | Classify the sewerage system---------4 marks  merits and demerits---------2 marks | **6** |
| **2** | **CO1** | **b** | Lo = 661.54 mg/L ---------2 marks  BOD5 = 392.578 mg/L ---------2 marks | **4** |
|  | | | | |
|  |  | **Q.3** | **All Questions are compulsory** | **10** |
| **2** | **CO2** | **a** | Give the significance of BOD and COD in wastewater treatment  ---------5 marks | **5** |
| **2** | **CO2** | **b** | DO Sag Curve:  Explain---------3 marks  Sketch ---------2 marks | **5** |
|  | | | | |
|  |  | **Q.4** | **Attempt any two out of three questions** | **10** |
| **2** | **CO4** | **a** | Municipal solid waste:  Sources ---------2 marks  Characteristics ---------3 marks | **5** |
| **2** | **CO4** | **b** | What is EIA and mention the importance of it ---------5 marks | **5** |
| **2** | **CO4** | **C** | Two-pipe system in building sanitation  Explanation------------3 marks  Sketch------------2 marks | **5** |

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