

1E1004

Roll No. _____

Total No of Pages: **3****1E1004**

**B. Tech I Sem. (Back) Exam. Jan. 2016
203 Old Engineering Chemistry
Common to all Branches of Engineering**

Time: 3 Hours**Maximum Marks: 80
Min. Passing Marks: 24****Instructions to Candidates:**

Attempt overall five questions, selecting one question from each unit. All questions carry equal marks.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL2. NIL**UNIT-I**

- Q.1 (a) What is EDTA? How will you determine the hardness of water by EDTA? [3+3=6]
- (b) What is Break point chlorination? [4]
- (c) Water containing CaCO_3 120 mg/lit, MgCO_3 84 mg/lit, $\text{Mg}(\text{NO}_3)_2$ 74 mg/lit, CaCl_2 111 mg/lit and KCl 100 mg/lit is to be treated with lime soda. Calculate the amount of chemicals required for the treatment of 5000 lit of water. [6]

OR

- Q.1 (a) Describe lime soda process for water softening. Give the chemical reactions involved during the softening. [3+3=6]
- (b) If silica is present in water, what harmful effects it can cause? [4]
- (c) Calculate the amount of lime required for softening of 5000 lit of hard water containing 72 ppm of Mg SO_4 . [6]

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