## DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE End Semester Examination – Winter 2018

| Course: F. Y.B. Tech. Subject: Engineering Chemistry |  | Sern                                   | Sern: I               |  |
|--|--|--|-----------------------|--|
|  |  | Subje                                  | Subject code: CHM12/2 |  |
| Date   | : 14/12/2018 D   | uration: 3 Hr. Marl                    | KS: 60                | an designan |
| Instr  | <ol> <li>uctions to the Students:</li> <li>1. Each question carries 12 marks.</li> <li>2. All questions are compulsory.</li> <li>3. Illustrate your answers with neat sk</li> <li>4. If some part or parameter is noticed it clearly in the answer.</li> </ol> |  |                       | men/on   |
|  |  |  | (CO)                  | Miks   |
| Q.1  | Solve Any Two of the following.  |  |                       | 2 6  |
|  | a) Explain in detail Hot lime So disadvantages.  | da process with its advantages and     | 01                    |  |
|  | b) Explain the determination of  | Dissolve Oxygen by Winkler's           |                       |  |
|  | Method.  |  |                       |  |
|  | c) What is Hardness of water an hardness of water by EDTA 1  |  |                       |  |
| 0.2  | Solve Any Two of the following.  |  |                       | 2 1 6  |
|  |  | with suitable examples in Phase Ru     | 1e 02                 |  |
|  | b) Describe in detail Phase Diag   | ram of Water system                    | 02                    |  |
|  | c) Explain Phase Diagram of tw   |  | 02                    |  |
| Q.3  | Solve Any One of the following.  |  |                       |  |
|  | a) What are the types of ores and Pyrolysis?   | d explain the reduction of ore by      | ()3                   |  |
|  | b) Explain Physical methods of   | concentration of ore.                  | 03                    |  |
| Q.4  | Solve Any Two of the following.  |  |                       | 2  |
|  |  | al with their characteristics and uses | ()4                   |  |
|  | b) Write a note on: Types of Lul   |  | ()4                   |  |
|  | c) Explain Proximate analysis of   |  | ()4                   |  |
| Q.5  | Solve Any One of the following   |  |                       |  |
|  | a) Explain Debye-Huckel theor  | ry of strong electrolyte.              | 0.5                   |  |
|  |  | plain the method of Conductometri      | c 05                  |  |