DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE –RAIGAD -402 103
Mid Semester Examination – Summer - 2018

Branch: Group A   Sem.:- II
Subject with Subject Code: - Engg. Chemistry (CHM 203)   Marks: 20
Date: - 14/03/2018   Time: - 1 Hr.

Instructions: - All questions are compulsory.   (Marks)

Que. No. 1 Multiple Choice Questions.   (06)

1. Residual hardness of water in Zeolite process is up to ------------- ppm.

   a) 10 -15   b) 15 - 30   c) 2ppm   d) 5 - 7 ppm

2. What is the chemical formula Quick lime?

   a) $CaCO_3$ b) Na_2CO_3 c) CaO   d) $Mg(OH)_2$

3. Pb-Ag alloy system is the example of ------------- component system.

   a) 3   b) 2   c) 1   d) 0

4. What is the Triple point temperature ($^\circ$C) of water system?

   a) 1   b) 0.02   c) 3   d) 0.0078

5. Chemical formula of Galena is ------------.

   a) PbS   b) CaO   c) ZnS   d) ZnO

6. Froth floatation Process is used for concentration of -------------ore

   a) Oxide   b) Sulphide   c) Magnetic   d) Roasting

Que. No. 2 Attempt any one of the following.   (06)

   a) Explain Ion Exchange method for softening of water with diagram and advantages.

   b) What is reduced phase rule equation? Explain Ag-Pb alloy system with phase diagram.

Que. No. 3 Attempt any two of the following.   (08)

   a) Explain the determination of Hardness of water by EDTA method.

   b) Discuss smelting process involved in Metallurgy.

   c) Explain electrolytic refining of metal with suitable example.