

II-Mid-Term Examination
Even-Semester, 2017-18

Program: B.Tech. Branch: ME, EC, EN, CCV&DA, Year:-I

Subject with Code: Engg.Chemistry, AHC1101

Time: 1 Hour

Maximum Marks: 15

Section-A

Attempt all questions.

3 x 2 = 6 Marks

- I. What do you understand by hardness of water? Discuss types and the measure to remove temporary hardness of water.
- II. Write the mechanism of anionic addition polymerization.
- III. Discuss the composition, properties and uses of Potash glass.

Section-B

Attempt all questions.

3 x 3 = 9 Marks

- I. a) Calculate the temporary and permanent hardness of water containing the following constituents per litre. $\text{Ca}(\text{HCO}_3)_2 = 486 \text{ ppm}$, $\text{MgCl}_2 = 190 \text{ ppm}$.
b) What is smart material?
- II. Outline Zeolite *OR* R.O. process for treatment of water.
- III. Write the preparation and uses of the following polymer.
i) PLA ii) Buna-S