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Roll No

CM-305 (GS)

B.E. III Semester Examination, June 2020

Grading System (GS)

Advanced Engineering Chemistry

Time : Three Hours

Maximum Marks : 70

- Note :** i) Attempt any five questions.
ii) All questions carry equal marks.

1. What are soaps and detergents? Give cationic anionic and neutral detergent.
2. a) Give uses of acrylic acid in Industries.
b) What are surface active agents?
3. What is pH? How pH is measured? What is temperature compensation of pH meters?
4. Discuss Phase diagram of pb-Ag system.
5. What is rate constant? Explain the temperature dependent term of a rate equation.
6. What is Hydrogenation? Describe the factors influencing the choice of extraction processers.

OR

- a) What is Nernst equation? Write its applications?
 - b) Discuss factors on which conductance of electrolytic solution depends?
7. Explain Debye-Hückel Theory of Electrolytes and write its assumptions.

OR

What are carbonium ions? Explain the formation and stability of carbonation and carbonium ions.

8. Explain the following terms (Any two):
 - a) Steric effects
 - b) Buffer solutions
 - c) Surface acting agents and their function
 - d) Properties of Vinyl chloride
 - e) Catalysis promoters and Inhibitors
