



KERALA AGRICULTURAL UNIVERSITY
B.Tech. (Agrl. Engg.) 2019 Admission
I Semester Final Examination-January 2020

Sacs.1103

Engineering Chemistry (2+1)

Marks:50
Time: 2 hours

I Fill in the blanks:

(10x1=10)

1. Synthetic form of zeolite is called _____.
2. The efficiency of a fuel is judged by its _____ value.
3. Pure metals have _____ corrosion.
4. Neoprene is made by polymerizing _____.
5. Mica is a _____ lubricant.
6. Dialysis is a method of removing _____ impurities from colloidal solution.
7. Water-soluble fraction of starch is called _____.
8. A phospho lipid present in egg is _____.
9. Retinol is a _____ soluble vitamin.
10. The enzyme _____ is used to dissolve blood clots.

II Write Short notes on ANY FIVE of the following

(5x2=10)

1. Reverse Osmosis.
2. Biogas.
3. Cathode protection.
4. Vulcanization.
5. Cataphoresis.
6. Gums.
7. Food preservatives.

III Answer ANY FIVE of the following

(5x4=20)

1. Give an account of Fischer-Tropsch process.
2. What are thermoplastics and thermosetting plastics? Give two examples for each.
3. Write a note on the structure of graphite and its uses as a solid lubricant.
4. How can buried pipelines be prevented from corrosion?
5. What is lacquer? What are the fractions involved in solvent formulation of lacquer?
6. Explain thermo-gravimetric analysis.
7. Explain different types of chromatography.

IV Write an essay on ANY ONE of the following

(1x10=10)

1. Why is sterilization of water necessary? Discuss various methods of sterilization. Briefly explain how water is treated for drinking purpose.
2. What is meant by cracking? What are the advantages of catalytic cracking? Discuss flue gas analysis by Orsat apparatus..
