

# KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg.) 2016 Admission  
1<sup>st</sup> Semester Final Examination-March-2017

Cat. No: Basc.1104.

Marks: 50.00

Title: Engineering Chemistry (2+1)

Time: 2 hours

## I Fill in the blanks/State True or False

(10x1=10)

1. The removal of dissolved solids (NaCl) from water is known as ----- process.
2. The complete removal of harmful bacteria from water is known as -----
3. In India, lignite deposits occur at ----- in the state of Tamilnadu.
4. ----- is a mixture of cement and sand in water.
5. The polymerization of a mixture of two different monomers of equal reactivity is called -----
6. A dispersion of graphite in water is called -----
7. Animal and vegetable oils undergo saponification but mineral oils do not (T/F)
8. Linear polymers show the highest degree of plastic deformation. (T/F)
9. Silicones are not used as high temperature lubricants. (T/F)
10. Cells used for generation of electrical energy from chemical reactions are called electrolytic cell. (T/F)

## II Write short notes/answers on any FIVE of the following

(5x2=10)

1. COD and BOD
2. Condensation polymerization
3. Classification of lubricants
4. Electrochemical theory of corrosion
5. Beer-Lamberts law
6. Gas chromatography
7. Desalination

## III Write short answers on any FIVE

(5x4=20)

1. Describe two methods of estimation of hardness of water?
2. What are the differences between thermoplastics and thermosetting plastics? Give two examples of each.
3. Write down any three applications of measurement of electrode potential.
4. Discuss the various methods of controlling corrosion?
5. Write short notes on i) Natural gas ii) LPG iii) Biogas
6. Refining of petrol.
7. Reverse osmosis.

## IV Write essay on any ONE

(1x10=10)

1. Describe the methodology of analysis of flue gas by Orsat Apparatus?
2. What are the major advantages and disadvantages of plastics?

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