

Code No: RA 9ABS103a

RA

II B.Tech I Semester(R09) Supplementary Examinations, May 2011.

ENGINEERING CHEMISTRY

(Common to Computer Science & Engineering, Information Technology)

For Students of R07 regulation readmitted to II B.Tech I Semester R09

Time: 3 hours

Max Marks: 70

Answer any FIVE questions
All questions carry equal marks

- Write the basic principle involved in the determination of chlorides present in the water.
 - Why is Calgon condition is better than Phosphate condition?
- Define corrosion and explain pilling bed worth rule.
 - Explain the factors which affect the rate of corrosion?
- Define vulcanization? How does it improve the properties of natural rubber?
 - Write Preparation, properties and important applications of Teflon.
- Describe the determination of flash point by penskey marten's apparatus with label Diagram.
- What are concentration cells? Derive expression for the EMF of concentration cell.
 - with transfer and.
 - without transfer.
- What is a metastable equilibrium? Explain this state in water system.
 - State the limitations of phase rule. Give applications of eutectics.
- Write short notes on:
 - Coal Gas
 - Biogas
 - Units for calorific value.
- What are refractories ? How are they useful in metallurgical industries ?
 - Explain the differences between the acidic and refractories with suitable examples and their applications.
