



Tech. Degree I & II Semester (Combined) Examination, June 2008

IT/CS/EC/CE/ME/SE/EB/EI/EE/FT 103 ENGINEERING CHEMISTRY
(2006 Scheme)

3 Hours

Maximum Marks: 100

PART A

(Answer all questions)

(8 x 5 = 40)

- | | | | |
|---|---|---|--|
| I | <input checked="" type="checkbox"/> a) <input type="checkbox"/> b) <input type="checkbox"/> c) <input type="checkbox"/> d) <input type="checkbox"/> e) <input checked="" type="checkbox"/> f) <input checked="" type="checkbox"/> g) <input type="checkbox"/> h) | Explain Born-Haber cycle with example. Explain in brief what is BET isotherm. What is photovoltaic effect? Give details of solar cells. Explain the significance of Arrhenius equation. What is Trouton's rule? Explain. What is meant by chemical potential? Give its importance in chemical reactions. Write notes on optical fibres. Write notes on nanoceramics. | |
|---|---|---|--|

PART B

(15 x 4 = 60)

- | | | | |
|------|--|--|-------------------|
| II | <input checked="" type="checkbox"/> a) <input type="checkbox"/> b) | Explain in details Point Defects. Explain Band theory of solids. | (10) (5) |
| OR | | | |
| III | <input checked="" type="checkbox"/> a) <input type="checkbox"/> b) | Explain the different types of liquid crystals. Write notes on Super Conductors. | (10) (5) |
| IV | <input type="checkbox"/> a) <input type="checkbox"/> b) <input type="checkbox"/> c) | Explain the Poggendorff compensation method for determination of emf. What is Buffer solution? Explain its action with examples. Explain Cathodic protection method in metallic corrosion. | (6) (4) (5) |
| OR | | | |
| V | <input checked="" type="checkbox"/> a) <input type="checkbox"/> b) | Give the important factors controlling corrosion. What is a sec-cell? Explain the working of lead-acid storage cell. | (8) (7) |
| VI | <input checked="" type="checkbox"/> a) <input type="checkbox"/> b) <input type="checkbox"/> c) | Derive the Kirchhoff's equation. Explain Nernst heat theorem. Thermodynamics of Biochemical reactions. | (6) (4) (5) |
| OR | | | |
| VII | <input type="checkbox"/> a) <input type="checkbox"/> b) <input type="checkbox"/> c) | Derive the Gibbs-Helmholtz equation. State the three different rules of thermodynamics. Show and explain the relation between temperature, pressure and free energy. | (5) (6) (4) |
| VIII | <input type="checkbox"/> a) <input type="checkbox"/> b) | What is polymer processing? Explain in details the different methods. Explain the mechanism of lubrication. | (10) (5) |
| OR | | | |
| IX | <input type="checkbox"/> a) | Write down in detail the preparation, properties and application of any three industrial polymers. | (10) |
| | <input checked="" type="checkbox"/> b) !! | What are the different types of lubricants? Give the details. | (5) |

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