Roll No

CY-110

B.E. (All Branches) I Year I Semester

Examination, December 2015

Choice Based Credit System (CBCS) Chemistry

Time: Three Hours

Maximum Marks: 60

Attempt any five questions. Note: i)

All questions carry equal marks.

- Draw molecular orbital level diagram for Nitric Oxide and Boron molecule.
 - Explain VSEPR model.

Differentiate between VBT and MOT.

Calculate the bond order of CO and N2.

Define the following term:-

i) Component

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Degree of freedom

Draw a phase diagram of Copper-Silver system.

What are the consequences of corrosion?

Write mechanism of electrochemical corrosion

Explain the following:-

Transport number

Solubility product

Define order of reaction. How it is differ from molecularity of a reaction? rgpvonline.com

[2]

Describe relationship between Cp and Cv.

Write short note on:-

Flash and Fire point

Viscosity Index

Write mechanism of polymerization.

Write short note on:-

Gibbs - Helmholtz equation

ii) Norrish type I reaction.