Vitthalbhai Patel & Rajratna P. T. Patel Science College, Vallabh Vidyanagar

B. Sc. (Semester-VI)

Subject: INORGANIC CHEMISTRY (US06CCHE03) Date: 14-03-2018 Internal Test - March, 2018 Marks: 25 Day: Wednesday Time: 11.00 a.m. to 12.30 p.m. Note: (i) All questions are to be attempted. (ii) Figures to the right indicate marks. Q.1 Choose the correct option for the following: [3] (i) Enzyme containing metal is responsible for hydrolysis of peptide chain. (a) Zn (b) Fe (d) Mn (c) Mg A catalyst is a substance that the rate of reaction but is not itself (ii)consumed. (a) decreases (b) stop (c) increases (d) delay The extraction of metal from its ore by a process involving melting is termed as (a) distillation (b) crystallization (c) fluxing (d) smelting Q.2 Answer the following (Attempt any two): [4] Give the structure of ATP and Porphyrin molecule. (i) Give the four requirements of a successful catalytic process. (ii)Define calcination and roasting. (iii)Q.3 Answer the following: [6] Give important role of metallic elements in bio-inorganic chemistry. [a] Write short on Vitamin B₁₂. [b] OR P. Science Q.3 Answer the following: [6] Write short note on Hemoglobin. [a] Give the brief account on Rubredoxin and Ferridoxin. [b] Q.4 Answer the following: [6] Describe Monsanto acetic acid synthesis. [a] Write notes on alkene polymerization. [b] OR Q.4 Answer the following: [6] Discuss the Palladium catalysed C-C bond forming reactions. [a]

Describe Wacker oxidation of alkenes.

[b]

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Q.5	Answer	tne	101	lowing	

[6]

- [a] Define concentration. Also write notes on Froth-flotation process.
- [b] Describe extraction of Copper by Bessemerisation process and give its uses. OR

Q.5 Answer the following:

[6]

- [a] Discuss the Dutch process for manufacturing of White lead.
- [b] Describe the extraction of Nickel by Orford's process.

