

VITTHALBHAI PATEL & RAJRATNA P. T. PATEL SCIENCE COLLEGE VALLABH VIDYANAGAR

INTERNAL TEST MARCH-2017

B. Sc. (Semester-VI)

Subject: Inorganic Chemistry (US06CCHE03)

Date: 08/03/2017	
Day: Wednesday Time: 11.00 a.m. to 12.30 p.m.	Total Marks: 25
Note: (i) All questions are to be attempted. (ii) Figures to the right indicate marks.	
Q. 1 Answer the following multiple choice questions. 1. The metalloenzyme cytochrome P-450 consists of which meta (a) Cu (b) Fe (c) Ni (d) Zn 2. The reaction to be catalyzed must be	[03]
(a) Kinetically favourable (b) Homogenous (c) Thermodynamically favourable (d) Organic 3. Siderite is an ore of? (a) Copper (b) Lead (c) Silver (d) Iron	
Q. 2 Answer the following: (Any Two)	[04]
 What is regulatory action of metallic elements? Give the four requirements of a successful catalytic process. Define Calcination and Roasting. 	
Q. 3	
a) Give a brief account on Vitamin B₁₂.b) Discuss the important role of metallic elements in biochemis	[03] try. [03]
OR	
Q. 3a) Give a brief account on Hemoglobin.b) Write short note on Hemorythrin.	[03]



Q. 4

a) Write short note on ethanoic acid synthesis. [03].
b) Explain catalytic cycle for hydroformylation of alkenes by cobalt carbonyl catalyst.

OR

Q. 4

- a) Give a brief account on Palladium catalyzed C-C bond forming reaction. [03]
- b) Discuss catalytic cracking and the interconversion of aromatics by Zeolite.[03]

Q.5.

- a) Discuss the Dutch process for manufacturing of White Lead. [03]
- b) Describe the extraction of copper from matte by Bessemer process. [03]

OR

Q. 5

- a) Describe the reactions involved during extraction of iron giving neat diagram of Blast furnace. [03]
- b) Give the names of principal types of furnaces used in extraction of metals. Describe the Reverberatory furnace. [03]

