## V. P. & R. P. T. P. SCIENCE COLLEGE, V.V. NAGAR INTERNAL TEST: MARCH-2014

## T. Y. B. Sc. Semester-VI

## Sub.:- Inorganic Chemistry (US06CCHE04)

Date: 13/03/2014	Time: 3.30 pm to 5.00 pm
Day: Thursday	Total Marks: 30
Note: (i) All questions are to be attempted.	# · ·
(ii) Figures to the right of each question indicate fu	l marks.
Q: 1 Answers the following short questions(any three)	[6]
(1) State 'Pilling-Bed worth' rules of oxidation corn	rosion.
(2) Give the mechanism of oxidation corrosion.	P. Science
(3) How will you prepare useful alloy of copper with	
(4) List any two low melting alloys and give their u	II I I I I I I I I I I I I I I I I I I
(5) Give only chemical reactions involved in Birkla process for the manufacture of nitric acid.	nd and Eyde
(6) Explain concentration of chamber acid by Gailla	ard Tower
(b) Explain concentration of chamber acta by Game	ard Tower.
Q:2 [A] Explain the term 'passivity' and give its alternate	tive definitions. [4]
[B] Corrosion starts from metal joints. Explain.	[4]
OR	
Q:2 [A] Describe the factors determining rate of corrosion	on for metal
sheltered from rain.	[4]
[B] What is meant by concentration cell corrosion?	
Q:3 [A] Write note on: Melting point of alloys.	[4]
[B] Explain interstitial alloys and discuss the phase	
of iron carbide alloy.	[4]
OR	
Q:3 [A] Discuss the general relationship (rules) establish	ned by careful study
of inter-metallic compounds.	[4]
[B] Discuss how size and valence of metals play an	important role in
formation of different types of alloys?	[4]
Q: 4 [A] Discuss the manufacturing process of sulphuric	acid by contact
process with required diagram and suitable theo	ry.
[B] Give the chemical properties and uses of sodium	hydroxide. [4]
OR	
Q: 4[A] Discuss the Oswald's process for the manufacture	re of nitric acid. [4]
[B] Discuss the chemical properties of sulphuric acid	d under headings: [4]
(i) Affinity for the water (ii) Action on r	netals
(iii) Oxidizing action	