V. P. & R. P. T. P. SCIENCE COLLEGE, V. V. NAGAR. INTERNAL TEST: MARCH-2017

T. Y. B. Sc. Semester-VI

Sub.:- Inorganic Chemistry (US06CCHE04)

Date: 09/03/2017	Total Marl	ks:25
Day: Thursday	Time: 11.00 A.M. To 12.30	P.M.
Note: (i) All questions are to be attempted.		
(ii) Figures to the right of each question	n indicate full marks.	
Q: 1Give the most correct choice to the following	llowing multiple choice	
questions.		[3]
(i) According to protective layer theory	the rate of film growth is	•••
(a)inversely proportional to thicknes	s of the film.	n Cal
(b)directly proportional to thickness	of the film.	P. Science
(c)directly proportional to thickness	of the metal.	BRARY
(d)inversely proportional to thicknes	s of the metal.	BRAKT
(ii) both with face-centered cub		V. Nagal
homogeneous solid solution over all		
	(c) Cu & Zn (d) Pb &	Sn
(iii)Nitric acid oxidizes the non metal to		
(a) acids (b) base (c) highest	oxy acids (d) lowest oxy a	acids
O . 2 Å	-([4]
Q: 2 Answers the following short questions		[4]
(i) Define:- (ii) Electro-chemical pass		ıy
(ii) List any two low melting alloys and a (iii) Explain sulphuric acid neutralizes all		
(m)Explain sulphune acid neutranzes and	tails to give two series of saits	
Q:3[A]Corrosion starts from metal joints. Ex	rnlain	[3]
[B]Explain the following terms:	spiani.	
(i) Hot dipping (ii) Corrosion in	hibitors	[3]
OR		
Q:3[A]What is meant by concentration cell of	corrosion? Explain briefly	[3]
[B]Describe the factors determining rate		
sheltered from the rain.		[3]
onortor of from the fam.		[~]
Q: 4[A]Discuss the general relationship (rule	s) established by careful	

study of inter-metallic compounds.	[3]
[B]Describe the effect of alloying.	[3]
OR	
Q: 4[A]Hardness of alloys affected by grain size. Explain fully.	[3]
[B]Discuss different types of steel alloys with respect to their industri	rial
applications.	[3]
Q: 5[A]Describe the manufacture of caustic-soda by using Castner-Kelln cell.[B]Explain, how the chamber acid is concentrated?	er [3] [3]
	[3]
OR Q:5[A]List different methods used for manufacture of nitric acid and dis Oswald's process in detail. [B]Discuss the chemical properties of sulphuric acid under headings: (i)Affinity for the water (ii)Action on metals	[3]
(iii)Oxidizing actions	[3]



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