## PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE (Higher Secondary Section) Margao-Goa.

MID TERM EXAMINAT CLASS : XII SCIENCE DATE & DAY : 08.08.201	SUBJECT : C	MARKS : 20 SUBJECT : CHEMISTRY TIME : 11.00 am to 12.00pm	
INSTRUCTIONS:	<ol> <li>All questions are compulsory.</li> <li>Figures to the right indicate full marks.</li> <li>The use of calculators is not permitted, however logarithmic tables provided on request.</li> <li>Given N<sub>A</sub>= 6.022 x 10<sup>23</sup> atoms/mol &amp; R = 8.314JK<sup>-1</sup>mol<sup>-1</sup></li> </ol>	s will be	
Name and explain t	of potassium to potassium chloride crystal makes it appear vi he type of non- stoichiometric defect shown by the above cr l diagram for the same.		
	mass of an element that crystallizes with a face centered cull $9$ gcm <sup>-3</sup> and edge length of the side of the unit cell as 0.3 x 1		
· 1	und added to soaps to impart antiseptic properties to it. ic detergent used in hair conditioners.	(	
	ed rate equation for the rate constant of a first order reaction a red for the completion of the first order reaction is independe on.		
$N_2O_5(g) \rightarrow N_2O_4(g)$	te constant for the decomposition of Nitrogen Pentoxide g) + $\frac{1}{2}$ 0 <sub>2</sub> (g) is 3.46 x10 <sup>-5</sup> s <sup>-1</sup> at 25°C and 4.87 x 10 <sup>-3</sup> s <sup>-1</sup> at 65 ation for the reaction.	°C. Calculate	
<b>C.</b> Draw the Maxwell-rate of reaction.	Boltzmann distribution curve showing temperature depende	nce on the (	
ii) Describe a	ng:- t labeled diagram to show the extraction of Aluminum in an method for the refining of Nickel. ations to show how Silver can be purified by leaching.	(3 electrolytic cell.	
i) Tranqu	nd function of each of the following:- nilizers spectrum antibiotics	(2	
Q.4.A. Name and write the mechanism to depict the alkaline hydrolysis of methyl chloride. Is it accompanied by inversion or retention of configuration?		ride. (2	
i) 1- Chloro	ations for the following conversions:- obutane to n- Octane e to But-2-ene	(2	
C. Explain Sandmeyer's	s reaction with an example.	(	

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