



Note :- Attempt all Questions.

CBSE

MM 20

Q-1	Classify as being either a p-type or n-type semiconductor (i) Ge doped with In (ii) B doped with si	(2)		
Q-2	Explain Zno is white, on heating it becomes yellow.	(2)		
Q-3	Out of simple. B.C.C. and C.C.P. which one has highest packing efficiency	(2)		
Q-4	Analysis shows that nickel oxide has formula $Ni_{0.98} O_{1.00}$ what fraction of the exists as (2) Ni^{++} and Ni^{3+}	nickel		
Q-5	Why soda water bottle fizzes out when cap in opened.	(2)		
Q-6	What would be the value of Vant's Hoff factor for a dilute solution of K_2SO_4 in water. (2)			
Q-7	An antifreeze solution in prepared solution is prepared from 222.6g of ethylene glycol			
	(2) $C_2H_4(OH)_2$ and 200g pf water. Calculate the molality of the solution. If the d	ensity		
	of this solution be 1.072gml ⁻¹ . What will be the molarity of solution.			
• •				
Q.8	Write short notes on micelle and shape selective catalyst with example	(2)		
Q.9	Calculate the emf of the cell	(-)		
	Mg/Mg2+(0.001M)/Cu2+(0.001M)C	(2)		
	Cu2+/Cu= 0.34 ;Mg2+/Mg=- 2.375			
Q.10.	what is the difference between physisorption & chemisorptions	(2)		
Q.11.	. A certain reaction is 50% complete in 20 min at 300K and the same reaction			
	again 50% complete in 5 min at 350K. Calculate the activation	(2)		
	energy if it is a first order reaction.			
0.10	(R = 8.314J K - 1 MOI - 1, 10g 4 = 0.602)	$\langle \mathbf{O} \rangle$		
Q.12	The rate constant for the first order decomposition of H2O2 is given by the Eollowing, equation log $k = 14.34 \pm 1.25 \times 104 \text{ K/T}$. Calculate Ea for this	(2)		
	reaction and at what temperature will its half-life be 256 minutes			
	reaction and at what temperature win its hair me be 200 minutes.			

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DON & DONNA CONVENT SHAHJAHANPUR

Time : Note :	- 1:00 hr - Attempt all Questions.	Subject :- Chemistry	Class : XII MM 20		
Q-1	Classify as being either a p-ty	pe or n-type semiconductor	(2)		
0-2	Explain Zno is white on heatin	in b doped with si	(2)		
0-3	Out of simple. B.C.C. and C.C.	P, which one has highest packing efficiency	(2)		
Q-4	Analysis shows that nickel o exists as (2) Ni^{++} and Ni^{3+}	xide has formula $Ni_{0.98} O_{1.00}$ what fractio	n of the nickel		
Q-5	Why soda water bottle fizzes of	out when cap in opened.	(2)		
Q-6	What would be the value of Vant's Hoff factor for a dilute solution of K_2SO_4 in water. (2)				
Q-7	An antifreeze solution in prep (2) $C_2H_4(OH)_2$ and 200g pf of this solution be 1.072gml ⁻¹ .	bared solution is prepared from 222.6g of water. Calculate the molality of the solutio What will be the molarity of solution.	ethylene glycol n. If the density		
Q.8	Write short notes on micelle a	nd shape selective catalyst with example	(2)		
Q.0	Mg/Mg2+(0.001M//Cu2+(0.001M//Cu2+(0.001M//Cu2+))	").001 <i>M</i>) C - 2.375	(2)		
Q.10.	what is the difference betwee	een physisorption & chemisorptions	(2)		
Q.11.	A certain reaction is 50% c again 50% complete in 5 mi energy if it is a first order rea (R = 8.314J K–1 mol–1, log	complete in 20 min at 300K and the sain at 350K. Calculate the activation action. 4 = 0.602	me reaction is (2)		
Q.12	The rate constant for the first	st order decomposition of H2O2 is given	by the (2)		

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Following equation log k = $14.34 - 1.25 \times 104$ K/T. Calculate Ea for this reaction and at what temperature will its half-life be 256 minutes.

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