

SECOND TERM SAMPLE PRACTICE PAPER CHEMISTRY

Time: 1:30 Hrs STD IX Score: 40

	_	nestion carries 1 score. en is five. In which group is it found	(4 x 1 =4)	
(Ionisation energy, ele		ted into an ion by adding an electronomisation enthalpy, ionisation)	n is called	
	g agent in this chemica	*		
(Mg, F ₂ , MgF ₂ , N 4. Which gas is produce 5. What is the solute in	d when ammonium ch	lloride and sodium hydroxide react?		
	ation of four elements $C - 2,7$	question carries 2 score. are given (symbols are not real)	(4 x	2 :
	ents belongs to the thi	those given in the table.		
B. Balance the chemica	l equation.			
<u> </u>	2	are taken in three test tubes. In each	of the three, piec	es
a) In which test tube w	vill the chemical reacti	of the same size are placed on rate be higher? eaction rate if a little water is added	l to it?	
<u>-</u>	able given below, drav	w the electron dot diagram of the fo	rmation of	
Element	Atomic number	Electron configuration		
Magnesium	12	2,8,2		

11. a) What is the oxidation number of oxygen in O_2 ?	1	1
b) Oxidation number of hydrogen (H) in H_2SO_4 is +1 and the oxidation sta	te of oxygen (O) is -2 2	2
12. In the equation for the formation of sodium chloride by combining sodiu	m and chlorine	
a) Oxidation half equation	1	1
b) Reduction half equation	1	1



c) The equation for the formation of sodium chloride (NaCl) by combining ions

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13.



As shown in the figure, if manganese dioxide (MnO_2) is added to a hydrogen peroxide (H_2O_2) solution taken in a boiling tube and a burning incense stick is held above it, it will be seen to glow brightly.

a) Which gas is produced in a boiling tube?		1
b) How is known of MnO2, that does not undergo	chemical change permanantly?	1
c) Name the enzyme that accelerated converting st	arch into maltose.	1
14. Write method of preparation of saturated, unsaturated	, and supersaturated solutions of	3
ammonium chloride (NH4Cl).		
15. Write any three characteristics of ionic compounds.		3
Answer any 4 questions from 16 to 20. Each question	n carries 4 scores . (4 x 4 = 16)	
16. a) Find the atomic number and mass number of elerb) Find the number of protons and neutrons presen		1 1
 c) Draw orbit electron configuration of this atom. 17. C + 4HNO₃ → 2H₂O + CO₂ + 4NO₂ 	2	
a) Write the oxidation number of carbon in the react	ant and the product in this chemical equation.	1
b) Did carbon undergo oxidation or reduction?	tion?	1
c) Which is the oxidising agent in this chemical reacd) Which is the reducing agent?	cuon:	1
18. Tabulate the following reactions in to Combination reaction, Decomposition reaction,		4
Double decomposition reaction, Displacement reaction	-	4
i. $Zn + 2AgNO_3 \rightarrow Zn(NO_3)_2 + 2Ag$ iii. $CaCO_3 \rightarrow CaO + CO_2$	ii. $2SO_2 + O_2 \rightarrow 2SO_3$ iv. $NaCl + AgNO_3 \rightarrow NaNO_3 + AgCl$	
19. From the table below, write the chemical formula of	4 salts that contain a negative ion in the acid	4
and a positive ion in the base.		



20.	. $CaCO_3(s) + 2HCl(l) \rightarrow CaCl_2(s) + H_2O(l) + CO_2(g)$	
	a) In this reaction when temperature increses rate of reaction increses. When	hy
	b) Write any other two methods to increse the the rate of reactions.	





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Scoring Key

Second Terminal Exam CHEMISTRY

Second	1 16111	ninal Exam CHEMISTRY	T	
Q No	S Q NO	Key point	Score	Total
1	_	15	1	1
2	-	electron gain enthalpy	1	1
3	-	F_2	1	1
4	-	ammonia	1	1
5	-	CO_2	1	1
	ı	Max 4 Score	ı	
6	a	D-2, 8, 8	1	2
	b	D- 2, 8, 8	1	_
7		Anaions- Cl ⁻ , O ²⁻	1/2+1/2	2
′		Cataion - Na ⁺ , Mg ⁺	1/2+1/2	
8		$4Al + 3O_2 \rightarrow 2Al_2O_3$		2
9	a	Mg	1	2
	Ъ	Decreses	1	2
10		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		2
		Max 8 Score		
11	a	0	1	3
11	b	6	2	
	a	$Mg \rightarrow Mg^+ + 2e^-$	1	
12	Ъ	$O + 2e^- \rightarrow O^{2-}$	1	3
	С	$Mg^+ + O^{2-} \rightarrow MgO$	1	
	a	Oxygen	1	
13	b	catalyst	1	3
	С	Amylase	1	
14		Method of preparing solutions	3	3
15		Ionic compounds are generally soluble in polar solvents such as water. They are non volatile and hard. They exist as crystals in solid state. Generally, they have high melting points and boiling points. Ionic compounds are not conductors of electricity in solid state, they conduct electricity in molten and aqueous states. ANY THREE	3	3
		Max 12 Score		



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	a	Mass number -11 & Atomic number - 5	1/2+1/2	
16	b	Protons – 5 & neutrons -6	1/2+1/2	4
	C	orbit electron digram	2	
17	a	oxidation number of carbon in the reactant - 0 oxidation number of carbon in the product - 4	1/2+1/2	
1/	b	oxidation	1	4
	C	HNO ₃	1	
	d	C	1	
18		Combination reaction, - ii Decomposition reaction - iii Double decomposition reaction - iv Displacement reaction - i	4	4
19		1- NaOH 2 -CaSO ₄ 3- Na ₂ SO ₄ 4 -Ca(OH) ₂	4	4
20	a	 i. Reactants are heated, the kinetic energy of the particles increases. ii. That is, as the temperature increases, the number of particles that attain the threshold energy increases, and as a result, the number of effective collisions increases leading to an increase in the rate of reaction. 	1 +1	4
	b	i. Increse the tempere ii. Powder CaCO ₃	1 +1	
,		Max 16 Score	·	

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