GREENLAWNS SCHOOL, WORLI FINAL EXAMINATION - 2016 CHEMISTRY

Std: VIII Date:18/02/2016

Marks: 80 Time: 2 hrs

Answers to this paper must be written on the paper provided separately. You will not be allowed to write during the first 15 minutes. This time is to be spent in reading the Question paper. The time given at the head of this paper is the time allowed for writing the answers.

Section I is compulsory. Attempt any four questions from Section II. The intended marks for questions or parts of questions are given in brackets [].

SECTION I (40 Marks)

)	Question 1	
	 (a) Name the following: An alloy of aluminium and magnesium. The family of periodic table with 32 elements. Electrode connected to positive terminal of the battery. A universal indicator. V. The substitution product obtained when ethane reacts with chlorine. 	[5]
	 (b) Distinguish between: Monobasic acid and monoacidic base Groups and periods Alkene and alkyne Froth floatation and gravity separation process Electrorefining and electroplating 	[5]
	(c) Define: i. Electrolysis ii. Hydrated salt iii. Catenation iv. Transition metals v. Galvanizing	[5]
•	 (d) Give a balanced equation for each of the following: Reaction of iron with steam Oxidation of methane Laboratory preparation of chlorine Action of acid on magnesium carbonate Addition reaction of ethene with chlorine 	[5]

(e) An atom of an element X has 2	electrons in its N shell.	[5]
i. State its electronic configura		
ii. Is it a metal or non-metal? J		
iii. State the number of protons		
iv. Write formula of its chloride.		
v. Where is the element place		
a. Validio le tile dicilioni piaco	a in the periodic date:	
(f) Draw the structures of the follow	ving:	[5]
i. Acetaldehyde	iv. Formic acid	
ii. Pentane	v. Butyne	
iii. Propene		
(g) Ammonia is a gas lighter than a	air.	[5]
i. What is the nature of ammo		
ii. What can you say about its	solubility?	
iii. Give an equation for its labo		
iv. How is the gas collected?	tenennia elektri	
v. What is the odour of ammor	nia gas?	
(h) In the study of electrolysis of co	opper sulphate solution, answer the following	
questions:		
i. Name the electrolyte and el	ectrodes used.	[1]
ii. Give dissociation of the elec-	ctrolyte used.	[1]
iii. Give cathode and anode re	actions.	[2]
iv. What is the result at the end	d of electrolysis?	[1]
	The state of the s	
EN T	SECTION II (40 Marks)	
Attemp	t any four questions from this section	
Question 2		
(a) State Dobereiner's law of triads		[2]
	ent electroplating of an article with nickel.	[3]
(c) The term 'acid' is derived from	the latin word meaning 'sour'.	[5]
i. Define acid.		
8	ration of acid by direct combination?	
	observed in case of methyl orange in acid med	lium?
iv. Give an equation to represe	ent the action of acid on a metallic sulphite.	
v. Mention the use of oxalic a	cid.	

Question 3			
(a) Draw a pH scale		[2]	
(b) Classify the follow		eak, acid or base:	[2]
i. pH = 6	iii. $pH = 9$		
ii. pH = 12	iv. $pH = 4$		
(c) With reference to			
	tural formula of ethyr		[1]
		o be an unsaturated hydrocarbon.	[1]
	eaction does ethyne		[1]
	equation to prove the		[2]
v. State one use	of this hydrocarbon.		[1]
Question 4		Fig. 1	
		espect to activity series of metals:	
	st and least active me		[1]
ii. How does the	most active metal re	act with acid and oxygen?	[2]
	s do metals possess		[1]
iv. vvny are meta	ls said to be good re	ducing agents?	[1]
(b) Converded	4-41-4-11		
(b) Copy and comple	te the table given be	low:	[5]
Croum / Doring			
	Type of element	Any two mombars of the avers	1
Group / Period Gp 1	Type of element	Any two members of the group	
Gp 1		Any two members of the group	
	Type of element Halogens	Any two members of the group He and Ne	
	Halogens		
Gp 1		He and Ne Cu and Ag	
Gp 1	Halogens	He and Ne	
Gp 1 Gp 2 Pd 6	Halogens	He and Ne Cu and Ag	
Gp 1 Gp 2 Pd 6 Question 5	Halogens Transition metals	He and Ne Cu and Ag La and W	
Gp 1 Gp 2 Pd 6 Question 5 (a) Name two acidic g	Halogens Transition metals gases and mention th	He and Ne Cu and Ag La and W neir solubility in water.	[2]
Gp 1 Gp 2 Pd 6 Question 5 (a) Name two acidic go (b) What are isomers	Halogens Transition metals jases and mention the Give the structural	He and Ne Cu and Ag La and W The initial control of the isomers of butane.	[2] [3]
Gp 1 Gp 2 Pd 6 Question 5 (a) Name two acidic go (b) What are isomers (c) With reference to see	Halogens Transition metals gases and mention the Give the structural salts, answer the following the structural salts.	He and Ne Cu and Ag La and W The initial control of the isomers of butane.	[3]
Gp 1 Gp 2 Pd 6 Question 5 (a) Name two acidic go (b) What are isomers (c) With reference to go i. Compare norm	Halogens Transition metals gases and mention the Give the structural salts, answer the followal and acid salt	He and Ne Cu and Ag La and W neir solubility in water. formula of the isomers of butane. owing questions:	[3] [1]
Gp 1 Gp 2 Pd 6 Question 5 (a) Name two acidic go (b) What are isomers (c) With reference to go i. Compare norm ii. Name two sulp	Halogens Transition metals gases and mention the Give the structural salts, answer the followal and acid salt whate salts which are	He and Ne Cu and Ag La and W deir solubility in water. formula of the isomers of butane. owing questions: insoluble in water.	[3] [1] [1]
Gp 1 Gp 2 Pd 6 Question 5 (a) Name two acidic go (b) What are isomers (c) With reference to go i. Compare norm ii. Name two sulp iii. Give equations precipitation.	Halogens Transition metals gases and mention the Give the structural salts, answer the followal and acid salt whate salts which are a for preparation of salts.	He and Ne Cu and Ag La and W deir solubility in water. formula of the isomers of butane. owing questions: insoluble in water. alts by – direct combination and	[3] [1]
Gp 1 Gp 2 Pd 6 Question 5 (a) Name two acidic go (b) What are isomers (c) With reference to go (c) With reference to	Halogens Transition metals Jases and mention the Give the structural salts, answer the followal and acid salt which are so for preparation of saltalance the equation	He and Ne Cu and Ag La and W deir solubility in water. formula of the isomers of butane. owing questions: insoluble in water. alts by – direct combination and	[3] [1] [1]
Gp 1 Gp 2 Pd 6 Question 5 (a) Name two acidic go (b) What are isomers (c) With reference to go (c) With reference to	Halogens Transition metals gases and mention the Give the structural salts, answer the followal and acid salt whate salts which are a for preparation of salts.	He and Ne Cu and Ag La and W deir solubility in water. formula of the isomers of butane. owing questions: insoluble in water. alts by – direct combination and	[3] [1] [1] [2]

Question 6				
(a) Compare minerals and	d ore.			[1]
(b) Mention one use of the	e following meta	I with reason why the m	etal is used for the	
specific application:		Sale Mile		[2]
i. Pig iron				
ii. Steel				
(c) Give the cathode and	anode reactions	for electrolysis of sodiu	ım chloride.	[2]
(d) Classify the following		•		[2]
Acetic acid, Na ₂ CO ₃ ,			***	PON
(e) State the property trer	ias or elements	on moving down in a gr	oup with respect to:	[3]
i. Character				
ii. Electro negativity				
iii. Electron shells				

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