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Answer Sheet No		BOL	
Sig. of Invigilator		134	
– I			OM
12)			

CHEMISTRY SSC-I

SECTION - A (Marks 12)

NOTE:-	It sl	hould	is compulsory be completed verwriting is no	in the	first 20 minut	es and	to be answered on the handed over to the cil.	centre	on paper itself. Superintendent.	
2.1	Circle the correct option i.e. A / B / C / D. Each part carries one mark.									
(i)	Who	discovered sulp	nuric aci	d?					
		Α.	Al Jahiz	В.	Berzelius	C.	Jabar Bin Haiyan	D.	Aristotle	
(ii)	Mass	is neither create	ed nor de	estroyed, during	a chemi	ical reaction but it only o	hanges f	rom one form to	
	another form. What is this law called?									
		Α.	Law of definite proportions			В.	Law of multiple prop	ortions		
		C.	Law of recipr	ocal prop	portions	D.	Law of conservation	of mass		
((iii)	The a	atom of which of	the follo	wing elements i	s the ligh	ntest?			
		Α.	Hydrogen	B.	Carbon	C.	Oxygen	D.	Nitrogen	
((iv)	What	are β - rays?							
		Α.	Protons	B.	Neutrons	C.	Electrons	D.	Positrons	
((V)	In ho	w many groups	has the I	Modern Periodic	Table b	een divided?			
		Α.	8	B.	18	C.	7	D.	20	
((vi)	Whic	h of the following	g will hav	e eight electror	ns in its o	utermost shell?			
		Α.	Fe	B.	K	C.	H^{+1}	D.	CI^{-1}	
((vii)	Whic	h of the following	g compo	unds changes o	lirectly in	to vapours upon heating	3?		
		Α.	Na_2CO_3	B.	$CaCO_3$	C.	NH_4Cl	D.	AICI ₃	
((viii)	One dm^3 solution has been prepared by dissolving 49 g of sulphuric acid in water. What will be the molarity								
		of thi	s solution?							
		Α.	0.5M	B.	0.25M	C.	0.75M	D.	0.125M	
((ix)	What	t is the process	of depos	tion of a metal	on anoth	er metal called?			
		Α.	Electrolysis	В.	Electroplat	ing C.	Radioactivity	D.	Ionization	
((x)	How	many Ionisable	Hydroge	n atoms are the	ere in ace	etic acid?			
		Α.	Four	B.	Two	C.	One	D.	Three	
(xi	(xi)	What will be the property of the solution obtained by mixing 50cm3 of 0.1M Hydrochloric acid solution in								
		50cm3 of 0.1M Sodium hydroxide solution?								
		A.	Acidic	B.	Basic	C.	Neutral	D.	None of these	
((xii)	Whic	h of the followin	g is used	to cure the stir	g of was	sp?			
		A.	Vinegar			B.	Lye			
		C.	Magnesia			D.	Litmus powder			
	For F	xamine	er's use only:				Il Marks:	12		

- 1SA-1008 (L)

Marks Obtained:



Q. 2

CHEMISTRY SSC-I

Student Bounty Com

 $(11 \times 3 = 33)$

Time allowed: 2:40 Hours

Total Marks Sections B and C: 53

NOTE:- Answer any eleven parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 33)

Answer any ELEVEN parts. The answer to each part should not exceed 3 to 4 lines.

	 (i) Who were Alchemists and what was their idea? (ii) Carbon and oxygen combine to form two types of oxides "A" and "B". "A" contain 12g of carbon with 16g of oxygen, whereas "B" contains 12g of carbon with 32g of oxygen. a. State the law, governing the formation of two different oxides from the same elements. 			
		b. c.	How does the data prove the law? Write the formula for oxides "A" and "B".	S. $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2} + \frac{1}{2}$
	(iii)	Com	plete and balance the following equations:	
		a.	$H_2S_{(g)} + SO_{2(g)} \longrightarrow$	01
		b.	$Na_2CO_{3(S)} + HCl_{(aq)} \longrightarrow$	01
		C.	$Al_{(S)} + O_{2(K)} \longrightarrow$	01
	(iv) (v) (vi) (vii)	Who What	discovered neutron? Give two properties of neutrons. is meant by Law of Octaves? lic bond is present in metals. Explain why. Metals are good conductor of electricity. High pressure changes the shape of metals. The melting and boiling points of metals are usually very high.	03 1+2 03 01 01 01
	(viii)	Give	the electronic configuration of the following elements: $11^{Na^{23}}$, $17^{Cl^{35.5}}$	03
	(ix) (x)	Defin Defin	e hydrogen bonding. e the following:	03
		a. b.	Saturated solution Super saturated solution	1½ 1½
	(xi) (xii)		e electrochemistry. entiate between Electrolytic cell and Voltaic cell.	03 03
	(xiii) (xiv) (xv)	What	is the sum of pH and pOH in solution? If a solution has pH 5.5, what will be its pOH? do you know about spectator ion? entiate between heat of reaction and enthalpy of reaction.	03 03 03
			SECTION - C (Marks 20)	
Note:	Attem	pt any	TWO questions. All questions carry equal marks. (2 x 10 = 20)	
Q. 3	Define	Modern	Periodic Law. Give any SIX features of the Modern Periodic Table. Write down trends	in the
	electro	n affinit	y and ionization energy of elements in groups and periods.	2+6+2
Q. 4	Define	chemic	cal reaction. Explain types of chemical reactions with one example of each.	
	Write o	lown ba	alance chemical equation in support of each type.	2+4+4
Q. 5	What is	s Solub	ility? Describe the various factors which affect solubility?	2+8
			—— 1SA-1008 (L) ——	