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1	1	1	1		1	1	1	1	1	1	1	VSLAMABAD
2	2	2	2		2	2	2	2	2	2	2	
3	3	3	3		3	3	3	3	3	3	3	Answer Sheet No
4	4	4	4		4	4	4	4	4	4	4	
5	(5)	5	(5)		(5)	(5)	5	(5)	5	5	(5)	Sign. of Candidate
6	6	6	6		6	6	6	6	6	6	6	
(7)	$\overline{7}$	$\overline{7}$	$\overline{7}$		(7)	$\overline{7}$	$\overline{7}$	(7)	$\overline{7}$	$\overline{7}$	$\overline{7}$	
8	8	8	8		8	8	8	8	8	8	8	Sign. of Invigilator
9	9	9	9		9	9	9	9	9	9	9	
						(CHI	EMI	IST	RY	SSC	C-I
											arks	
							1 ime	e allo	wed	: 20	Minu	ites

Section – A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. **Do not use lead pencil.**

Q.1 Fill the relevant bubble for each part. Each part carries one mark.

(1)	IIA ha A.	h one of the following charged aving electronic configuration A^{+3} A^{+1}		A ⁺²
(2)		h one of the following pairs of er pairs of subshells?	f subshe	ell has the lowest energy as compared
	A.	1s,2s	B.	2s,2p
	C.	3s, 3p	D.	3s, 4s
(3)	Whic	h one of the following Isotope	s is use	d in nuclear reactors?
	A.	U-234	B.	U-238
	C.	U-235	D.	U-233
(4)	How	many molecules of oxygen ga	s contai	ns one mole of oxygen gas?
	A.		B.	6.022×10^{23}
	C.	$32 \ge 6.022 \ge 10^{23}$	D.	$16 \ge 6.022 \ge 10^{23}$
(5)	The v	ariable that is kept constant in	Charle	s' Law is:
	A.	Temperature	B.	Volume
	C.	Pressure	D.	Volume & Temperature
(6)	The n	nost dilute solution amongst th	ne follov	wing is:
	A.	1M	B.	0.5 M
	C.	0.02M	D.	0.0005M

(7)	Press	ure Cooker works on the princ	iple of a	relationship of boiling point with:
	A.	External Pressure	B.	Evaporation
	C.	Boyle's law	D.	Volume
(8)	17g o	f NH ₃ is dissolved in 1 dm ³ of	solutio	n, its molarity will be:
	A.	1	B.	2
	C.	3	D.	4
(9)	In H ₂	S, the oxidation state of Sulph	ur is:	
	A.	+1	B.	+ 2
	C.	- 1	D.	-2
(10)	The c	ompound having Hydrogen bo	onding a	among its molecule is:
	A.	C ₆ H ₆	B.	MgO
	C.	CH_4	D.	H ₂ O
(11)		llic Character increases down t metallic:	the grou	p, which one of the following is the
	A.	Rb	B.	Cs
	C.	Na	D.	Κ
(12)	The n	nost electronegative element in	n the gro	oup VIIA is:
	A.	F	B.	Cl
	C.	Br	D.	Ι



Federal Board SSC-I Examination Chemistry Model Question Paper (Curriculum 2006)

Time allowed: 2.40 hours

Note: Answer all parts from Section 'B' and all questions from Section 'C' on the **E-sheet**. Write your answers on the allotted/given spaces.

SECTION – B (Marks 33)

Q.2	Atte i.	empt all parts from the following. All parts carry equal marks. Calculate the number of molecules in 4.5 moles of Carbon dioxide. OR	$(11 \times 3 = 33)$ (1+2)
		Calculate the mass of one Hydrogen atom in gram.	(1+2)
	ii.	Draw Bohr's Atomic Model for Potassium ₁₉ K ³⁹ indicating the location electrons, protons and neutrons.	on of (1+1+1)
	iii.	State Charles's Law. Derive its mathematical expression.	(1+2)
	iv.	Define ionic bond. Give one example of two elements forming an ion between them.	ic bond (1+2)
	v.	Write two similarities and two differences between isotopes.	(1.5+1.5)
	vi.	Elements are unstable in free state except noble gases. Explain how e stability?	lements attain (1+2)
		OR	
		Why is an atom always electrically neutral? Give reason	(1+2)
	vii.	Write electronic configuration of Aluminum ${}_{13}Al^{27}$. Identify its group	p and period. (1+1+1)
		OR How does the change in temperature affect the Vapour Pressure of a l with the help of graph.	liquid? Show (1+2)
	viii.	How will you prepare 250 cm ³ of 0.025M Na ₂ SO ₄ solution from a sto 2M Na ₂ SO ₄ ?	ock solution of (1+2)
	ix.	Identify the oxidizing and reducing agents in the following reaction we oxidation number: a. $H_2S + Cl_2 \longrightarrow 2HCl + S$ b. $Mg + 2HCl \longrightarrow MgCl_2 + H_2$	vith indicating (1.5+1.5)
		OR	
		Define corrosion. How is corrosion prevented by cathodic protection	? (1+2)
	Х.	Enlist the name of three noble metals? (OR	1+1+1)
		Why is the boiling point of water at the top of Mount Everest 70° C.	Give a reason? (1+2)
	xi.	Discuss why sugar is soluble in water but petrol is not?	(1.5+1.5)

SECTION – C (Marks 20)

Note: Attempt all questions. Marks of each question are given within brackets.

Q.3	What are the type of bonds responsible for the formation of F_2 , O_2 and N_2 Explain the formation of bond with the help of structures. OR	2? (2+2+2)
	Describe Rutherford's Experiment with diagram and its conclusions.	(3+3)
Q.4	Describe three importance of intermolecular forces in our life. OR	(2+2+2)
	Describe the trend of Ionization Energy in the Period and group. Explain reasons.	n with (3+3)
Q.5	Explain the working and construction of Daniel Cell with the help of a la diagram. OR	belled (2+2)
	Identify the relationship between electronic configuration and the positio	n of an
	element in the periodic table. ${}_{35}\text{Br}^{70}$ and ${}_{8}\text{O}^{16}$	(2+2)
Q.6	By using following reactions. Discuss the reactivity i) $2KI + Br_2 \longrightarrow 2KBr + I_2$ ii) $KBr + Cl_2 \longrightarrow 2KCl + Br_2$	(2+2)
	* * * *	

Atomic No	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Symbol	н	He	Li	Ве	в	С	N	ο	F	Ne	Na	Mg	A	Si
Mass no	1	4	7	9	11	12	14	16	19	20	23	24	27	28
Atomic No	15	2	16	17	18	19	20	31	32	33	34	35	36	37
Symbol	Р	He	S	CI	Ar	к	Ca	Ga	Ge	As	Se	Br	Kr	Rb
Mass no	31	4	32	35	40	39	40	70	73	74	79	80	84	85
Atomic No	38	49	50	51	52	53	54	55	56	81	82	83	84	85
Symbol	Sr	In	Sn	Sb	Те	I	Xe	Cs	Ва	TI	Pb	Bi	Ро	At
Mass no	88	115	119	122	128	127	131	133	137	204	207	208	209	210