Revision Exercise on Valency and Chemical Compounds

Form Two and Other Levels

RSE006

Instructions:

- Answer all questions in the spaces provided.
- Estimated time 60minutes.
- For form two skip question number 3(b)

SECTION A: Multiple Choice Questions

- 1. (i) The atomic numbers of elements P, Q, and R are 12, 8, and 7 respectively. Which of the following compounds are ionic?
- A. PQ and Q_3R_2 . B. PQ and P_3R_2 . C. Q_3R_2 and RQ. D. P_3R_2 and RQ2.
- ii. The electronic configuration of magnesium ion is A. 2:8:2 B. 2:8 C. 2:8:3 D.2:2:8
- iii. Most ionic compounds are soluble in A. water B. kerosene C. diesel D. all of these solvents.
- iv. Usually non-metals electron(s) to be stable. A. engulf B. force C. gain D. lose
- v. According to Mendeleev's periodic law, the elements were arranged in the periodic table in the order of:
- A. decreasing atomic numbers B. increasing atomic numbers C. decreasing atomic masses D. increasing atomic masses.

i	ii	iii	iv	V

SECTION B: Short Answer Type Questions

2. An atom X of an element, atomic mass 31 contains 15 protons.
(a) (i) State the number of neutrons in X.
(ii) Write the electronic configuration of X.

(b) State th	e group in th	e Periodic Ta	able the elen	nent belongs										
3. (a) An element X is in Group II of the Periodic Table.														
(i) State the	(i) State the type of bond that exists in the chloride of X													
(ii) Write the	he formula of	f the ion form	ned by X											
(b) The nit	rate of X was	strongly hea	ated.											
(i) State wh	hat was obser	ved												
(ii) Write a	(ii) Write an equation for the reaction.													
						•••••	•••••							
4. Study th	e part of peri	odic table an	d answer the	e following o	question:		VIII							
	II	TTT		**	X 7 T	X 777								
	11	III	IV	V	VI	VII								
S	11	111	P	V	V1 T	R	0							
S a. Which o			Г		Т	R	Q							
a. Which o	f the element	s is/are meta	l(s)?		Т	R								
a. Which o	of the element	s is/are meta	l(s)?		Т	R								
a. Which o b. Suppose i) Write the	f the element e element P re e formula of t	s is/are meta eacts with ele	l(s)? ement T. d formed bet	tween P and	T	R								
a. Which o b. Suppose i) Write the ii) What we	f the element e element P re e formula of t	es is/are meta eacts with elected the compoundation of bond f	l(s)? ement T. d formed between	tween P and	T	R								
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4. Some elements in Period 3 of the Periodic Table are shown in the table below:

Group	Ι	II	III	IV	V	VI	VII	О
Element	E	Y			T	X	Q	Z

(a) Write the formula of the compound formed when

(i) T reacts with Q.

(ii) E magata with V	
(II) E reacts with A.	••••••

(b) State the type of bonding:

(i) Between the atoms of Y

(ii) When X is reacted with oxygen

(iii) Between Y and Q	
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