Revision Exercise on Valency and Chemical Compounds

O-level Form 2

RSE005

Instructions:

- Answer all questions in the spaces provided.
- Estimated time 50minutes

SECTION A: Multiple choice questions

1.i. What is the valency of element X in the compound $X_2(SO_4)_3$?

A. 2 B. 3 C. 4 D. 5

ii. What is the valency of element M in the compound MSO₄?

A. 2 B. 3 C. 4 D. 5

iii. Element X reacts with chloride to form a compound with formula XCl₄. The formula of the oxide of X is A. XO₄ B. XO C. X₂O D. XO₂

iv. If the nitrate of element P has the formula PNO₃, what is the formula of its oxide? A. P₂O₃. B. P₂O₅. C. P₂O. D. PO₂

v. If the chloride of element M has the formula MCl₃, what is the formula of its sulphate? A. MSO₄. B. M_2SO_4 . C. $M_2(SO_4)_3$. D. $M_3(SO_4)_2$.

i	ii	iii	iv	V

SECTION B

(iii) valency.		 •••••
(ii) radical.		
(i) atomicity of an element		
2. (a) Define the following		

(b)(i) Differentiate between molecule and atom.
(ii) Giv e three examples of molecules that contain:
Similar kinds of atoms
Different kinds of atoms
(c) How many atoms of each element are present in the following compounds? (i)H ₂ SO ₄
(ii) FeSO ₄
(iii) Pb(NO ₃) ₂
(d) A compound is a pure substance that made up of two or more elements. How many elements
make up the following compounds? In each case identify those elements.
(i) H ₂ O
(i) H ₂ O (ii) CO ₂ (iii) (NH4) ₃ PO ₄
(i) H ₂ O
(i) H ₂ O (ii) CO ₂ (iii) (NH4) ₃ PO ₄ 3.(a) Write the chemical formulae of the following

(iv) ammonium sulphate
(b) Name the following compounds
(i) CaSO ₄
(ii) Cu(NO ₃) ₂
(iii) CuCl ₂

Best regards,

The Diaprof Team

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