

# INDEX

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<u>10</u>	<u>10.10.21</u>	<u>atoms, molecules and radicals</u>	<u>1</u>	<u>[Signature]</u>



ii) Write the names of the following compounds.

a)  $(\text{NH}_4)_2\text{SO}_4$  - Ammonium Sulphate

b)  $\text{FeS}$  - Iron Sulphide

c)  $\text{NH}_4\text{OH}$  - Ammonium hydroxide

iii) Write the molecular formula of the following compounds

a) Sodium Sulphide -  $\text{Na}_2\text{S}$

b) Magnesium oxide -  $\text{MgO}$

c) Calcium hydroxide -  $\text{Ca(OH)}_2$

d) Hydrogen chloride -  $\text{HCl}$

e) Sulphuric acid -  $\text{H}_2\text{SO}_4$



III) Write the symbols and valencies of the following

Radicals	Symbol	Valencies
1) Magnesium ion	$Mg^{2+}$	2
2) Carbonate	$CO_3^{2-}$	2
3) Ammonium	$NH_4^+$	1

IV) Name the following radicals

1) $SO_4^{2-}$	Sulphate
2) $OH^-$	Hydroxide
3) $HCO_3^-$	Bicarbonate
4) $Cr_2O_7^{2-}$	Dichromate
5) $PO_4^{3-}$	

Sub topic - periodic table and writing the chemical formula of a compound.

1) Write the names of the element present in the following compounds.

- Common salt - Sodium, chlorine
- Sulphuric acid - Hydrogen, sulphur
- Sodium hydroxide - Sodium, oxygen
- Ammonia - Nitrogen, hydrogen



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## Worksheet - 4

### Atoms, molecule and Radicals

i) Fill in the Gaps

10 ~~are~~ Atoms are Smallest unit of molecule matter

20 Metals have variable valency

30 The number of atom present in a molecule of an element is called as Atomicity.

40 The combining capacity of an element is known as valency.

50 Carbon is the element with valency 4

60 The valency of iron in  $Fe_2O_3$  is 3.

ii) Define the following

10 Atoms - Atom is the smallest unit of matter.

20 molecule - molecule is the smallest unit of a compound which always has an independent existence.

30 Radicals - A radical is an atom of an element or a group of atoms of different charges element that behaves as a single unit with a positive or negative charge on it.

40 valency - It is the number of electrons donated or accepted by the valence shell of an atom during chemical combination.