- CHEMISTRY WORKSHEET CLASS-IX CHAPTER- ATOMS AND MOLECULES

1.	FILL IN THE BLANKS:-
(a)	The full form of IUPAC is
(b)	In water, the proportion of oxygen and hydrogen is by mass.
(c)	The building blocks of matter are
(d)	The atomicity of oxygen is
2.	NAME THE SCIENTIST WHO GAVE:-
(a)	Law of conservation of mass (c) Atomic theory of matter
(b)	Law of constant proportion (d) Concept of symbols
3.	GIVE TWO SYMBOLS WHICH HAVE BEEN DERIVED FROM:-
(a)	The English names of the elements
(b)	The Latin names of the elements
4.	MULTIPLE CHOICE QUESTIONS:-
1. ٦	The symbols of elements cobalt, aluminium, helium, sodium respectively written by a
S	student are as follows. Which symbol is correct one?
(a)	CO (b) AL (c) He (d) So
2.	The formula of a compound is X ₃ Y. the valencies of elements X and Y will be
	1 and 3 (b) 3 and 1 (c) 2 and 3 (d) 3 and 2
5. \	Work out the formulae of the following compounds:-
٠,	Sodium oxide (b) Calcium carbonate
	Magnesium hydrogen carbonate (d) Aluminium oxide
6. ľ	Name the following compounds. Also write the symbols/ formulae of ions present in
t	them.
(i)	$CuSO_4$ (ii) $(NH_4)_2 SO_4$ (iii) Na_2CO_3 (iv) $CaCl_2$
7.	What do the following abbreviations stand for:-
(i)	O (b) 2O (iii) O_2 (iv) $3O_2$
8.	Define the following:-
	Cation (b) polyatomic ions
	Potassium chlorate decomposes on heating to give potassium chloride and oxygen.
٧	When 24.5 g of potassium chlorate is decomposed completely, then 14.9 g of potassium
	hloride is formed. Calculate the mass of oxygen formed. Which law of chemical
	ombination have been used to solve this problem?
10.	. Fill in missing data:-

Species→	Oxygen	nitrogen	Calcium	Aluminium
Property				
Valency	2			3
Atomic no.		7	20	