KERALA PUBLIC SCHOOLS

ACADEMIC YEAR 2020-21

HOME ASSIGNMENT (20-07-2020 to 25-07-2020)

CLASS	SUBJECT	CHAPTER	TOPIC	WEBLINK
VII	CHEMISTRY	Ch - 4 : Language of Chemistry and Balancing Chemical Equations	1. **Formulate in language of chemistry and balance the following**:- a) Methane reacts with Oxygen to give Carbon-di-oxide and Water. b) Ammonium Chloride reacts with Sodium Nitrite to give Ammonium Nitrite and Sodium Chloride c) Ammonium Sulphate decomposes to give Ammonium bisulphate and Ammonia d) Ammonia reacts with Chlorine to give Ammonium chloride and Nitrogen molecule. e) Ammonia reacts with Chlorine to give Nitrogen tri-chloride and Hydrochloric Acid. Note: Study the last two reactions reactants are same but the products are different. **2. Balance the following skeletal equations:**	Read your book and check "language of chemistry"

2. Balance the following skeletal equations:

a)	$P + N_2O$	$\longrightarrow$	$P_2O_5 + N_2$
b)	$Na + N_2O$	$\longrightarrow$	$Na_2O + N_2$
c)	$S + N_2O$	$\longrightarrow$	$SO_2 + N_2$
d)	$P_2O_5 + HNO_3$	$\longrightarrow$	$HPO_3 + N_2O_5$
e)	$KMnO_4 + H_2SO_4 + NO$	$\longrightarrow$	$K_2SO_4 + MnSO_4 + HNO_3$
	Note: Just try the above question		
f)	$P + HNO_3$	$\longrightarrow$	$H_3PO_4 + NO_2 + H$
g)	$KMnO_4 + NH_3$	$\longrightarrow$	$KOH + MnO_2 + N_2$
h)	$Fe(OH)_3 + HNO_3$	$\longrightarrow$	$Fe(NO)_3 + H_2O$
i)	$Cu + HNO_3$	$\longrightarrow$	$Cu(NO_3)_2 + NO_2$

3. Name the following compounds:

1	P_2O_5	
2	Na_2O	
3	SO_2	
4	HNO_3	
5	MnO_2	
6	HPO_3	
7	N_2O_5	
8	H_3PO_4	
9	NO_2	
10	KOH	
11	$Fe(OH)_3$	
12	$Fe(NO)_3$	
13	$Cu(NO_3)_2$	
14	NO	
15	N_2O	

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