

**-PON VIDYASHRAM, VALASARAVAKKAM**  
**PERIODIC TEST - 1**  
**CHEMISTRY - WORK SHEET**  
**CLASS - X**

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**I. Answer the following in very short:-**

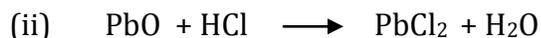
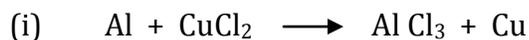
1. Balance the given reaction and write the values of X and Y  
$$\text{Be}_2\text{C} + X \text{H}_2\text{O} \longrightarrow Y \text{Be}(\text{OH})_2 + \text{CH}_4$$
2. Identify the reducing agent in the following reaction  
$$\text{Fe}_2\text{O}_3 + 3 \text{CO} \longrightarrow 2 \text{Fe} + 3 \text{CO}_2$$
3. Why is photosynthesis considered an endothermic reaction?
4. What type of coating is formed on copper articles when they get corroded?
5. What is meant by skeletal equation?
6. Define alkalies and give an example.
7. Write the chemical name and chemical formula of washing soda.
8. Name the gas evolved when dilute HCl reacts with sodium Hydrogen Carbonate. How is it recognized?
9. Why is HCl a strong acid than Acetic acid?
10. What happens when nitric acid is added to eggshells?

**II. Answer the following in short:-**

11. State the kind of chemical reaction in the following examples.  
a. Digestion of food in stomach    b. combustion of coal in air.
12. a. Write the essential condition for the following reaction to take place  
$$2 \text{AgCl} \longrightarrow 2 \text{Ag} + \text{Cl}_2$$
 and write one use of this reaction.  
b. Complete the following reaction:-



13. Balance the following chemical equations:-



14. 15 ml of water and 10 ml of sulphuric acid are to be mixed in a beaker.

(i) State the method that should be followed with reason.

- (ii) What is this process called?
15. Give the chemical name and formula of  
(i) Soda ash (ii) Blue Vitriol (iii) Baking Soda
16. Tap water conducts electricity whereas distilled water does not – Why?

**III. Answer in brief:-**

17. Name the acid present in ant – sting and give the chemical formula. Also give the common method to get relief from the discomfort caused by the ant – sting.
18. A student prepared solution of (i) an acid and (ii) a base in two separate beakers. She forget to label the solutions and litmus paper is not available in the laboratory. Since both the solutions are colourless, how will she distinguish between the two?
19. Give reason why:-
- Na acts as an reducing agent while chlorine acts as an oxidizing agent in the reaction  $2 \text{Na}_{(s)} + \text{Cl}_2 (\text{g}) \longrightarrow 2 \text{NaCl}_{(s)}$
  - White coloured AgCl turns grey when kept in sunlight.
  - Colour of the solution changes when iron nail is dipped in copper sulphate solution.
  - Lime water turns milky when  $\text{CO}_2$  is passed through it.

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