

**TEST-2**

SUBJECT: PHYSICAL SCIENCE

CLASS: X

NAME OF THE STUDENT: \_\_\_\_\_

Academic Year-(2020-2021)

**CHAPTER-2: ACIDS,BASES&SALTS**

ROLL NO: \_\_\_\_\_ MAX.MARKS:20

**I. Answer the following questions****2x4=8**

1. Compounds such as alcohols and glucose contain hydrogen but are not categorized as acids. Describe an activity to prove it.

(OR)

Show that acids produce hydrogen gas when react with metals

2. Complete the following table (AS4)

S.NO	Sample solution	Red litmus paper	Blue litmus paper	Phenolphthalein solution	Methyl orange solution
1	HCl				
2	NaOH				

(OR)

Observe the table and answer the following questions (AS4)

Liquid/Solution	pH
P	7
Q	6
R	11
S	2
T	8

- a) Which is strong acid?  
 b) Which one indicates pure water?  
 c) If  $P^H=7$ , then find the  $[H]^+$   
 d) Which solutions are acidic solutions?

**II. Answer the following questions****3x2=6**

3. What is a neutralization reaction? Give two examples.  
 4. Why does not distilled water conduct electricity?  
 5. Why does tooth decay start when the pH of mouth is lower than 5.5?

**III. Answer the following questions****3x1=3**

6. What happens when an acid or base is mixed with water?  
 7. Why pure acetic acid does not turn blue litmus to Red?  
 8. Define  $p^H$  scale.

**IV. Answer the following questions****6x1/2=3**

9. The colour of phenolphthalein indicator in basic solution is \_\_\_\_\_

A) Yellow B) Green C) Pink D) Orange

10. Match the following

P)  $p^H$  of Acid rain ( ) X) Lower than 5.5Q)  $p^H$  of Tooth decay ( ) Y) Less than 5.6

( ) Z) Greater than 5.6

11. Which gas evolves, when metal carbonate or metal hydrogen carbonate react with acids

A) Hydrogen B) Oxygen C) Nitrogen D) Carbon dioxide

12. What is range of  $p^H$  scale?

13. What is the nature of non-metal oxides?

14. Is the substance present in antacid tablet acidic or basic?