Acids, Bases, and Salts – Class X – Paper Set 1

1.	What happens to blue litmus paper when it is dipped in an acidic solution?
	(a) It turns red
	(b) It turns green
	(c) It turns blue
	(d) No color change
2.	Which gas is usually released when an acid reacts with a metal?
	(a) Oxygen
	(b) Carbon dioxide
	(c) Nitrogen
	(d) Hydrogen
3.	What will be the pH value of a solution that turns red litmus blue?
	(a) Less than 7
	(b) Exactly 7
	(c) More than 7
	(d) Cannot be determined
4.	Which of the following is used to neutralize stomach acid?
	(a) Antibiotic
	(b) Antacid
	(c) Analgesic
	(d) Antiseptic
5.	A bee sting leaves an acid that causes pain and irritation. Which substance can be applied for relief?

	(a) Vinegar
	(b) Baking soda
	(c) Lemon juice
	(d) Salt water
6.	What is the chemical name of baking soda?
	(a) Sodium carbonate
	(b) Sodium chloride
	(c) Sodium bicarbonate
	(d) Sodium hydroxide
7.	Which of these is an example of a strong acid?
	(a) Acetic acid
	(b) Hydrochloric acid
	(c) Citric acid
	(d) Carbonic acid
8.	What does pH measure in a solution?
	(a) Concentration of oxygen ions
	(b) Concentration of water molecules
	(c) Concentration of hydrogen ions
	(d) Concentration of sodium ions
9.	What type of reaction occurs when an acid reacts with a base?
	(a) Decomposition
	(b) Displacement
	(c) Combination

- (d) Neutralization
- 10. What is the nature of the salt formed from the reaction between a strong acid and a strong base?
 - (a) Acidic
 - (b) Basic
 - (c) Neutral
 - (d) Depends on the reactants

Answers for Paper Set 1:

1. (a), 2. (d), 3. (c), 4. (b), 5. (b), 6. (c), 7. (b), 8. (c), 9. (d), 10. (c)