

CLASS VII
G. SCIENCE
SUMMATIVE ASSESSMENT NO. – 1
ACIDS BASES & SALTS
Assignment No. 21

Q.1 Complete the following:-

- (i) The sour things we eat contain _____
- (ii) Ammonium hydroxide is _____
- (iii) An acid is _____ by a base
- (iv) Milk contains _____ acid.
- (v) Litmus is extracted from _____

Q.2 Multiple choice questions (Choose the correct option)

(A) Which of the following is a strong acid?

- (a) Nitric acid (b) Citric acid (c) acetic acid (d) Tartaric acid

(B) which of the following is not a base?

- (a) Sodium Hydroxide (b) Magnesium Hydroxide (c) Copper Carbonate (d) Ammonium Hydroxide

(C) Which of these metals can not be used to prepare hydrogen by the action of an acid.?

- (a) Sodium (b) Iron (c) Zinc (d) Copper

(D) what is the common name of Sodium bicarbonate?

- (a) Phitkari (b) Caustic Soda (c) Baking Soda (d) Blue vitriol Non renewable and can not be recycled

(E) Sodium chloride will turn

- (a) Blue Litmus Red (b) Methyl orange yellow (c) Red Litmus blue (d) None of these

Q.3 Name one each of acidic, basic and neutral substances.

Q.4 What are the general properties of an acid and a base?

Q.5 What is an indicator? Give examples of two natural indicators?

Q.6 What is an acid rain? How is it formed? Mention three bad effects of acid rain.

Q.7 Name four substances that can serve as indicators.

Q.8 'Turmeric indicator does not indicate whether the substance is acidic or neutral. Is the statement true? Explain.

Q.9 What is the color of litmus paper which changes its color in acidic solution?

Q.10 If few drops of purple-cabbage juice are added to the colorless solution of an acidic material. What would be the color of the resulting solution?

Q.11 A few drops of china rose indicator are added to the colorless solution of a chemical the resulting solution will become light green. What does it indicate about the nature of the chemical?

- Q.12 What is a neutralization reaction? Does a neutralization reaction always result in the formation of neutral salt?
- Q.13 Write a note on uses of bases.
- Q.14 You are given three unknown liquids an acid other is a base and third is a neutral substance. How will you classify the given liquids as acidic, basic and neutral?
- Q.15 An acidic material is mixed with an equivalent amount of a basic material.
- What is the reaction called?
 - What products are formed?
- Q.16 Explain why
- Great care should be taken while handling Laboratory acids and bases.
 - Acidic soil is treated with a base and basic soil is treated with organic matter.
- Q.17 How is a salt formed?
- Q.18 What happens when metals and non-metals combine with Oxygen?
- Q.19 Nancy a class-VII student was performing an experiment in the Chemistry lab. Her teacher instructed her
- Not to waste/smell chemicals
 - Not to dispose off all chemicals in the sink.
 - Not to mix chemicals haphazardly for example, never add water to acid to dilute it; always add acid slowly to water.
- Why did the teacher advice Nancy to follow the above safety measures?

HOTS QUESTIONS

- Q.1 If you get Turmeric stain on your clothes while eating food, and try to wash it off with soap, the stain becomes red. Why? Find out how to remove haladi stains from clothes.
- Q.2 Is the meaning of 'weak acid' the same as that of dilute acid?
- Q.3 The waste of many factories contain acids. Why is it considered necessary to neutralize them before allowing the waste to flow into water bodies.?