

Mount Litera Zee School, Roorkee

Grade-VII

Subject- SCIENCE

Chapter-Acids bases and salts

Self Assessment

Date:- 23.07.21

Q1.

a) Define

i) **Acids**...Acids are compounds that are corrosive and have H ions in their solutions.

ii) **Bases**...Bases are compounds that are slippery and have hydroxide ions in their solutions.

iii) **Salts**...Compounds formed by the reaction between acids and bases.

iv) **Neutralisation**The reaction between acid and base to form salt and water is neutralization reaction.

v) **Indicator**...Are substances used to test acidic and basic nature of substances.

b) True /False

i) false

ii) false

iii) true

iv) true

v) true

vi) false

vii) false

viii) true

c)

i) Bases are bitter to taste.

ii) Substances that are neither acidic or basic are neutral

iii) Antacids are used to treat acidity.

iv) Bases turn red litmus blue.

v) Tooth decay is caused due to presence of acidic condition in mouth.

vi) Neutral soil is best for the crops to grow.

d) **Organic acids**.....Malic acid, acetic acid, Tartaric acid, Oxalic acid, Formic acid

Mineral acids....HCl, H₂SO₄, HNO₃

Q2. Short Answers

a) Sharan has acidic soil in his field to neutralize it he uses quick lime, which is a base.

b) Bee sting can be treated with a base as the sting has Formic acid.

c) China rose indicator is prepared by boiling its petals in water.

d) We use any reliable indicator to test the nature of the solution.

e) Curry leaves contain turmeric which turns red in soap solution which is basic.

f) Copper sulphate crystals contain water of crystallization which make it blue.

g) Mineral acids are prepared from minerals in the earth and organic acids are obtained from living organisms. Mineral acids are strong and organic acids weak.

h) Shampoo is a mild base and conditioner is a mild acid so use of a conditioner neutralizes the effect of the base.

Q3.

a) Acids are sour to taste, corrosive in nature, mix well with water . They have H ions in solution and turn blue litmus red.

b) Bases are bitter to taste, are slippery to touch. They have OH ions in solution and turn red litmus blue.

c) Salts are formed by neutralization of acid and base. They can be acidic , basic or neutral.

d) A reaction between acid and base to form salt and water is called neutralization. The nature of the salt formed depends on the nature of the acid and the base . A strong acid and weak base make an acidic salt and vise-versa ,but if both are strong

the salt is neutral.

e) There will be no reaction as window cleaner is a base and two bases do not react.

f) The solution is acidic. We can use Phenolphthalein or Methyl orange.

g) Baking soda is used in baking industry to raise the dough.

It is used as an Antacid

It is used in fire extinguishers

It is used to treat urinary infections.

h) Acidity is treated by adding basic fertilisers to the soil.

i) Gases mix with water to come down as acid rain which harms the structures on earth.

Q4.

a) Done in NCERT

b) Indicators are used in Laboratory to identify the nature of the solutions .
