

*Name of the student:* ..... *Date:* 07/10/2020

**Uses of Acids and Bases**

The various uses of acids and bases are listed in this subsection.

**Uses of Acids**

- Vinegar, a diluted solution of acetic acid, has various household applications. It is primarily used as a food preservative.
- Citric acid is an integral part of lemon juice and orange juice. It can also be used in the preservation of food.
- Sulfuric acid is widely used in batteries. The batteries used to start the engines of automobiles commonly contain this acid.
- Lot of  $H_2SO_4$  is used in the preparation of chemicals starting from detergents, paints, medicine, fertilizers, insecticide, paper, explosives and rayon.
- Phosphoric acid is a key ingredient in many soft drinks.
- The goldsmith uses Nitric acid when he makes ornaments of gold.
- Sometimes people use Carbolic acid to protect their houses from snakes.
- There is acid in our stomach to digest the food we eat; this is Hydrochloric acid.

**Q. What types of acids are used in the following items?**



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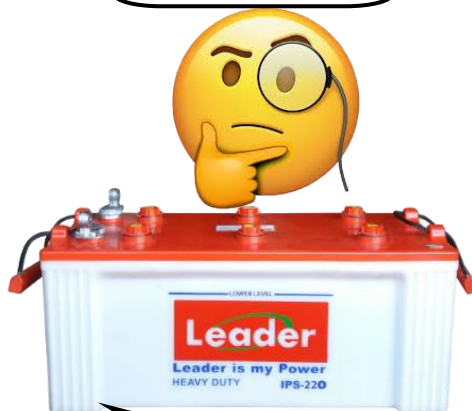
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Q. The state of progress of a country in respect of its industrial development is usually judged by the quantity of  $H_2SO_4$  it produces. —Evaluate the statement.

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### Uses of Bases

- The manufacturing of soap and paper involves the use of sodium hydroxide.
- NaOH is also used in the manufacture of rayon.
- $Ca(OH)_2$ , also known as slaked lime or calcium hydroxide, is used to manufacture bleaching powder.
- Dry mixes used in painting or decoration are made with the help of calcium hydroxide.
- Magnesium hydroxide, also known as milk of magnesia, is commonly used as a laxative. It also reduces any excess acidity in the human stomach and is, therefore, used as an antacid.
- Ammonium hydroxide is a very important reagent used in laboratories.
- Any excess acidity in soils can be neutralized by employing slaked lime.
- Calcium hydroxide is also used to clean the sulfur dioxide, which is caused by the exhaust, that is found in power plants and factories.
- The dilute solution of Calcium hydroxide or lime water is used for the white wash of our buildings.

Q. What types of bases are used in the following items?

