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Acids, Bases and Salts

Five marks questions.

- 1. Name the following:
 - (i) One strong base and one weak acid.
 - (ii) Acid injected into our body by a bee sting that causes pain.
 - (iii) Mixture of common salt and ice.
 - (iv) Commercial name of calcium sulphate hemihydrate.
 - (v) Sodium compound used as an ant acid.
- Give reasons for the following :
 - Plaster of paris should be stored in moisture proof container.
 - (ii) Why bleaching powder is used for disinfecting drinking water?
 - (iii) A farmer is adding quick lime to the field. Why he is doing so? What other chemicals compounds he can add to his field?
 - (iv) Curd and sour substances should not be kept in brass and copper vessel.
 - (v) Distilted water does not conduct electricity where as rain water does.
- Write equations and then balanced equation for the reaction taking place.
 - Solution of NaOH reacts with Zinc metal.
 - Bleaching powder reacts with sulphuric acid.
 - (iii) Chlorine gas is passed through slaked lime.
 - (iv) Excess of CO₂ is passed through lime water.
 - (v) Washing soda is exposed to atmosphere.
- The pH value of solutiosn P, Q, R, S, and T are 3, 1, 12, 7 and 10 respectively.
 - Arrange these solutiosn in the decreasing order of pH values.
 - (ii) Arrange these solutiosn in the increasing order of pH values.
 - (iii) In the list of the given solutions identify?

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- (a) Neutral solution
- (b) Highly alkaline solution
- (c) Highly acidic solution
- (d) less acidic solution
- (e) less basic solution.
- 5. (a) Write the equations to represent the reaction of sodium hydroxide with
 - (i) Zinc metal
 - (ii) Carbon dioxide
 - (iii) Hcl
 - (b) Give one example to represent the following
 - (i) A basic oxide which is soluble in water.
 - (ii) A basic oxide which is insoluble in water.
 - (iii) A hydroxide which is insoluble in water.
 - (iv) A strong and a weak basic oxide.

Three marks questions

- (a) How does H⁺ ions exist in water ?
 - (b) A solution has a pH equal to 7. How can we
 - (i) increase the pH
 - (ii) decrease its pH.
- 7. Give reasons for the following
 - (i) Change in pH can cause tooth decay.
 - (ii) The acid must always be added slowly to water with constant stirring.
 - (iii) Acids show their acidic behaviour only in presence of water.
- What happens when electricity is passed through an aqueous solution of sodium chloride (brine) writs equations. Name this process.
- Why the Tartaric acid is added in baking soda to prepare baking powder?
- What happens to the concentration of an acid or a base. When water is mixed to it, and what is the name given to this process.

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Two marks question

- Name the plant from which litmus solution is extracted and name the division to which this plant belongs.
- Why the compounds like alcohol and glucose do not show acidic behaviour although they contain hydrogen in them.
- 13. Fresh milk has a pH of 6. How doex the pH would change as it turns into curd?
- 14. An element P does nto react with dilute sulphuric aicd. It forms and oxide PO which turns red litmus to blue. Will you call P as metals or nonmetals. Give reason for your answer.
- 15. Why it becomes difficult for aquatic life to survive when acid rain flows into the river?

One mark questions

- 16. Why are some perishable foods preserved in Vinegar?
- 17. Name the element common in all acids.
- 18. Ammonia is considered as a base although it does not contain hydroxyl ion. Why?
- Why does dry HCl gas not change the colour of dry litmus paper.
- Name the sodium compound used for softening hard water.
- Write the name and formula of a compound used for supporting fractured bones.
- 22. What happens when annydrous copper sulphate is moistened with water?
- 23. When a honey bee stings any part of body it causes pain and irritation.
 - (a) Name the chemical which the honey bee leaves in our body.
 - (b) Write the method by which we can got relief after a bee sting.
- 24. Why do we take baking soda to remove acidity?
- 25. What is water of crystallisation? Give example.

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