CHEMISTRY

BOOKS - PSEB

ACIDS, BASES AND SALTS

Exercise

1. State differences between acids and bases.

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2. Ammonia is found in many household products, such as window cleaners. It turns red litmus blue. What is its nature?

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3. Name the source from which litmus solution is obtained. What is the use of this solution?

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4. Is the distilled water acidic/basic/neutral? How would you verify it?

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5. Describe the process of neutralisation with the help of an example.

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6. Mark 'T' if the statement is true and 'F' if it is false:- Nitric acid turn red litmus blue.

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7. Mark 'T' if the statement is true and 'F' if it is false:- Sodium hydroxide turns blue litmus red.

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8. Mark 'T' if the statement is true and 'F' if it is false:- Sodium hydroxide and hydrochloric acid neutralise each other and from salt and water.

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9. Mark 'T' if the statement is true and 'F' if it is false:- Indicator is a substance which shows different colours in acidic and basic solutions.

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10. Mark 'T' if the statement is true and 'F' if it is false:- Tooth decay is caused by the presence of a base.

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11. Dorji has a few bottles of soft drink in his restaurant. But, unfortunately, these are not labelled. He has to serve the drinks on the demand of customers. One customer wants acidic drink, another wants basic and third one

wants neutral drink. How will Dorji decide which drink is to be served to whom?

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12. Explain Why:- An antacid tablet is taken when you suffer from acidity.

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13. Explain why:- Calamine solution is applied on the skin when an ant bites.

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14. Explain why:- Factory waste is neutralised before disposing it into the water bodies.

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15. Three liquids are given to you. One is hydrochloric acid, another is sodium hydroxide and third is a sugar solution. How will you

identity them? You have only turmeric indicator.

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16. Blue litmus paper is dipped in a solution. It remains blue. What is the nature of the solution? Explain.

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17. Consider the following statements: A- Both acids and bases change colour of all indicators. B-If an indicator gives a colour change with an acid, it does not give a change with a base. C- If an indicator changes colour with a base, it does not change colour with an acid. D-Change of colour in an acid and a base depends on the type of the indicator. Which of these statements are correct?

A. All four

B. a and d

C. b and c

D. only d

Answer:

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