



CHEMISTRY

BOOKS - PSEB

ACIDS, BASES AND SALTS

Exercise

1. A solution turns red litmus blue, its pH is likely to be

A. 1

B. 4

C. 5

D. 10

Answer:



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2. A solution reacts with crushed egg-shells to give a gas that turns lime water milky the solution contains:

A. NaCl

B. HCl

C. LiCl

D. KCl

Answer:



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3. 10 ml of a solution of NaOH is found to be completely neutralised by 8 ml of HCl. If we take 20 ml of the same solution of NaOH, the

amount of HCl solution (the same solution as before) required to neutralise it will be:

A. 4mL

B. 8mL

C. 12mL

D. 16mL

Answer:



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4. Which one of the following types of medicines is used for treating indigestion?

A. Antibiotic

B. Analgesic

C. Antacid

D. Antiseptic

Answer:



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5. Write word equations and then balanced equations for the reactions taking place when -dilute sulphuric acid reacts with zinc granules.



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6. Write the balanced chemical equation for the following reaction and identify the type of reaction . Magnesium (s)+Hydrochloric acid(aq) → Magnesium chloride (aq)+Hydrogen(g)



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7. Write word equations and then balanced equations for the reactions taking place when -dilute sulphuric acid reacts with aluminium powder.



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8. What happens when dilute hydrochloric acid is added to iron filings? Tick the correct answer



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9. Compounds such as alcohols and glucose also contain hydrogen but are not categorised as acids. Describe an activity to prove it,

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10. Why does not distilled water conduct electricity, whereas rainwater does?

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11. Why do acids not show acidic behaviour in the absence of water?



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12. Five solutions A, B, C, D and E when tested with universal indicator showed pH as 4, 1, 11, 7, and 9 respectively, which solution is:

neutral?

strongly alkaline?

strongly acidic?

weakly acidic?

weakly alkaline?: arrange the pH in increasing order of hydrogen-ion concentration



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13. Equal lengths of magnesium ribbons are taken in test tubes a and b. Hydrochloric acid (HCl) is added to test tube a, while acetic acid (CH_3COOH) is added to test tube b. Amount and concentration taken for both the

acids are same. In which test tube will the fizzing occur more vigorously and why?



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14. Fresh milk has a pH of 6. How do you think the pH will change as it turns into curds?

Explain your answer.



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15. A milkman adds a very small amount of baking soda to fresh milk.

why does he shift the ph of the fresh milk from 6 to slightly alkaline?



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16. A milkman adds a very small amount of baking soda to fresh milk.

Why does this milk take a long time to set as curd?





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17. Plaster of paris should be stored in a moisture-proof container explain why?



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18. What is a neutralisation reaction? Give two examples



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19. Give two important uses of washing soda and baking soda.



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