



CHEMISTRY

BOOKS - NCERT EXEMPLAR

ACIDS , BASES AND SALTS

Multiple Choice Questions

1. The correct way of making a solution of acid in water is to

A. add water to acid .

B. add acid to water .

C. mix acid and water simultaneously .s

D. add water to acid in a shallow container .

Answer: B



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2. Products of a neutralisation reaction are always

A. an acid and a base .

B. an acid and a salt .

C. a salt and water .

D. a salt and a base .

Answer: C



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3. Turmeric is a natural indicator. On adding its paste to acid and base separately, which colours would be observed

- A. Yellow in both acid and base .
- B. Yellow in acid and red in base .
- C. Pink in acid and yellow in base .
- D. Red in acid and blue in base .

Answer: B



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4. Phenolphthalein is a synthetic indicator and its colours in acidic and basic solutions, respectively are

A. red and blue .

B. blue and red .

C. pink and colourless.

D. colouriess and pink

Answer: A



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5. When the soil is too basic , plants do not grow well in it . To improve its quality what must be added to the soil ?

A. Organic matter

B. Quick lime

C. Slaked lime

D. Calamine solution

Answer: A



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6. Litmus , a natural dye is an extract of which of the following ?

A. China rose (Gudhal)

B. Beetroot

C. Lichen

D. Blue berries (Jamun)

Answer: C



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7. Neutralisation reaction is a

A. physical and reversible change .

B. physical change that cannot be reversed

.

C. chemical and reversible chemical change

.

D. chemical change that cannot be reversed .

Answer:



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8. A solution changes the colour of turmeric indicator from yellow to red. The solution is

A. basic

B. acidic

C. neutral

D. either neutral or acidic

Answer:



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9. Which of the following set of substances contain acids ?

A. Grapes, lime water

B. Vinegar, soap

C. Curd, milk of magnesia

D. curd, grapes

Answer: D



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10. On adding phenolphthalein indicator to a colourless solution, no change is observed.

What is the nature of this solution ?

A. Basic

B. Either acidic or basic

C. Either acidic or neutral

D. Either neutral or acidic

Answer:



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11. Which of the following is an acid -base indicator ?

A. Vinegar

B. Lime water

C. Turmeric

D. Baking soda

Answer: C



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Very Short Answer Questions

1. Look at the given reaction .

Hydrochloric acid + Sodium hydroxide (base)

→ Sodium chloride (salt)+ Water

Sodium chloride formed in this reaction remains in solution form .Can we get solid chloride from this solution ? Suggest a method (if any).



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2. State whether the following statements are true or false . Correct the false statements . All substances are either acidic or basic .



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3. State true or false.

A compound if acidic will turn all indicators red .



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4. State true or false.

Lime water turns red litmus blue .



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5. State true or false.

Common salt dissolved in water turns blue litmus red .



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6. State true or false.

Phenolphthalein is a natural indicator .



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7. State True or False.

Calamine can be used to treat ant 's sting .



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8. State true or false.

Lemon water is basic in nature .



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9. Paheli is suffering from indigestion due to acidity . Is it advisable to give her orange juice in this situation ?

A. Yes

B. No

C. Maybe

D. Always

Answer: B

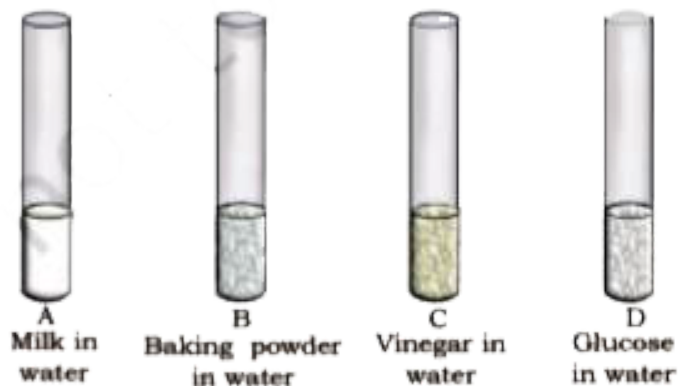


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Short Answer Questions

1. Look at Figure 5.1 which shows solutions taken in test tubes A,B,C and D . What colour is expected when a piece of red litmus paper is

dropped in each test tube ? Nature of the solutions is given in the table for your help .



Test Tube	Nature of Solution	Change in colour of red litmus
A	Neutral	
B	Basic	
C	Acidic	
D	Neutral	



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2. While playing in a park , a child was stung by a wasp . Some elders suggested applying paste of baking soda and others lemon juice as remedy. Which remedy do you think is appropriate and why ?



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3. Form a sentence using the following words -
baking soda, ant bite, moist, effect,
neutralised, rubbing.





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4. Match the substance in Column I with those in Column II .

Column I	Column II
(a) Tartaric acid	(i) soap
(b) Calcium hydroxide	(ii) curd
(c) Formic acid	(iii) unripe mangoes
(d) Sodium hydroxide	(iv) ant's sting
(e) Lactic acid	(v) lime water



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5. Fill the blanks in the following sentences

Lemon juice and vinegar taste _____

because they contain _____.



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6. Turmeric and litmus are _____ acid-base indicators.



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7. Phenolphthalein gives _____ colour with lime water.



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8. When an acidic solution is mixed with a basic solution, they _____ each other forming _____ and water .



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Long Answer Questions

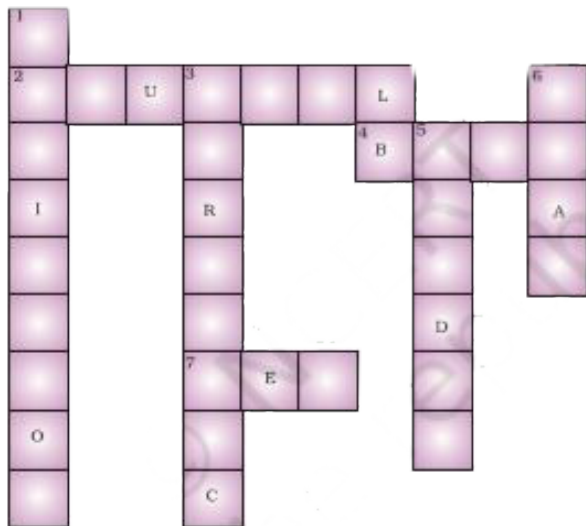
1. Boojho , Paheli and their friend Golu were provided with a test tube each containing

China rose solution which was pink in colour .Boojho added two drops of solution 'A' in his test tube and got dark pink colour .Paheli added 2 drops of solution 'B' to her test tube and got green colour.Golu added 2 drops of solution 'C' but could not get any change in colour Suggest the possible cause for the variation in their results.



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2. Fill in the cross word given as Figure 5.2 with the help of the clues provided .



ACROSS

(2) The solution which does not change the colour of either red or blue litmus .

(4) Phenolphthalein gives pink colour in this type of solution .

(7) Colour of blue litmus in lemon juice .

DOWN (1) It is used to test whether a substance is acidic or basic .

(3) It is a natural indicator and gives pink colour in basic solution .

(5) Nature of ant's sting .

(6) It is responsible for increase in temperature during a neutralisation reaction.



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3. A farmer was unhappy because of his low crop yield . He discussed the problem with an agricultural scientist and realised that the soil of his field was either too acidic or too basic . What remedy would you suggest the farmer to neutralise the soil ?



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4. You are provided with four test tubes containing sugar solution baking soda

solution , tamarind solution , salt solution .

Write down an activity to find the nature (acidic /basic/neutral) of each solution .



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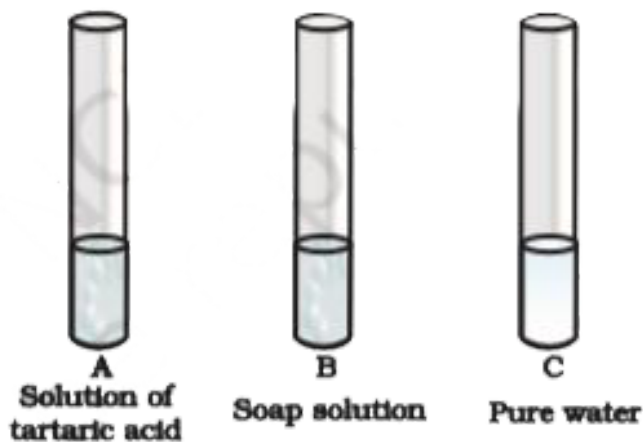
5. You are provided with three test tubes A,B and C as shown in Figure 5.3 with different liquids . What will you observe when you put

(a) a piece of blue litmus paper in each test tube .

(b) a piece of red litmus paper in each test

tube .

(c) a few drops of phenolphthalein solution to each test tube .



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6. Pahell observed that most of the fish in the pond of her village were gradually dying .She

also observed that the waste of a factory in their village is flowing into the pond which probably caused the fish to die .

(a) If the factory waste is acidic in nature , how can it be neutralised ?



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7. Explain two neutralisation reactions related to daily life situation .



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