

BCM SCHOOL, CHANDIGARH ROAD, LUDHIANA
A SENIOR SECONDARY SCHOOL OF BCM FOUNDATION, AFFILIATED TO CBSE, NEW DELHI.
CLASS VII SCIENCE WORKSHEET CHAPTER 4 (ACIDS, BASES AND SALTS)

SECTION A: MULTIPLE CHOICE QUESTIONS: Tick the correct option:

i) What is the nature of baking soda?

- a) Acidic b) Basic c) Neutral d) None of the above

ii) What effect does turmeric have when mixed with a basic solution?

- a) It turns pink b) It turns red c) It turns yellow d) It turns blue

iii) Which of the following is not a natural acid as mentioned in the chapter?

- a) Citric acid b) Ascorbic acid c) Hydrochloric acid d) Tartaric acid

iv) Which of the following is a neutral solution?

- a) Lemon juice b) Milk of magnesia c) Distilled water d) Vinegar

SECTION-B; ASSERTION REASON BASED QUESTIONS:

Choose the appropriate answer:

(a) Both A and R are true and R is the correct explanation of A.

(b) Both A and R are true but R is not the correct explanation of A.

(c) A is true but R is false.

(d) A is false but R is true.

1. ASSERTION (A): Turmeric is a neutral indicator.

Reason (R): Turmeric acquires orange colour in alkaline solution.

2. Assertion (A): Sugar is a neutral substance.

Reason (R): A sugar solution turns red litmus blue.

SECTION-C; CASE STUDY –

One day Rahul's mother, after taking meals felt pain and irritation in her stomach. He recalled his teacher's statement and gave his mother some baking soda solution, which gave her relief from pain and irritation of stomach.

Read the above passage and answer the following questions.

1. What problem was his mother facing?
2. Which information given by Rahul's teacher helped him to select the baking soda as remedy?
3. What other things can be used instead of baking soda?

SECTION D: Answer the following questions:-

1. What are indicators? Write two types of indicators with examples of each.
2. While playing in a park, a child was stung by a wasp. Some elders suggested applying the paste of baking soda and other lemon juice as the remedy. Which remedy do you think is appropriate and why?
3. Write five examples of how neutralisation reaction is useful in our daily life? Explain it also.
4. How can you prepare the China rose indicator? Write the effect of China rose indicator on acidic and basic solutions.
5. What is acid rain?
6. Why is toothpaste basic in nature?
7. Why does turmeric stain on white shirt turn red when it is washed with soap?