



परमाणु ऊर्जा शिक्षण संस्था

Atomic Energy Education Society

ANSWER KEY (2025-26)

कक्षा /Class: VII

विषय /Subject: SCIENCE

माह/ Month: JULY

दिया गया पाठ्यक्रम /Portion covered: Chapter: 2: Exploring Substances Acidic, Basic and Neutral

Section – A

Multiple choice questions:

1. (b)
2. (c)
3. (a)
4. (b)
5. (b)
6. (c)
7. (b)
8. (c)
9. (c)
10. (a)

Assertion and reason questions:

- 11.(c) Assertion is true, and reason is false.
- 12.(a) Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.
- 13.(c) Assertion is true, and reason is false
14. b) Both assertion and reason are true, but reason is not the correct explanation of assertion

Case Based Questions.

15. i) (a) ii) (b) iii) (b) iv) (c)

Section – B

Short Answer Type Questions (Type-I):

16. Red rose petals extract turns red in an acidic solution and green in a basic solution

17. It is because the soap solution is basic, and turmeric turns red in basic solution.

18. Soap and toothpaste

19. They neutralize each other, forming salt and water. Heat is also released in the process.

20. a) Lime water-basic b) Vinegar-acidic c) Toothpaste-basic d) Lemon juice-acidic

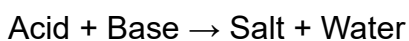
Short Answer Type Questions (Type-II):

21. To prepare lime water, dissolve some lime (calcium oxide) in water. Stir the mixture and let it sit for a while. Then, filter the solution, and the liquid obtained is lime water.

22. Put a drop of the substance on blue and red litmus paper. If blue turns red, it's acidic; if red turns blue, it's basic; if no change, it's neutral.

23. Liquid X is basic because it turns red rose extract green. Amla juice is acidic, and when added in excess, it neutralizes the basicity of liquid X, making the solution acidic. The red rose extract will turn this solution red.

24. The reaction between an acid and a base is called neutralisation. In this reaction, a salt and water are formed, and heat is also released.



Farmers add lime (calcium oxide), which is a base, to neutralise the acid in the soil. If the soil is too basic, they add organic matter (compost) to make it neutral
