

# Science

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(Chapter – 1) (Chemical Reactions and Equations) (Practice Test 1)

(Class X)

Time: 1 hour

Maximum Marks: 25

## General Instructions:

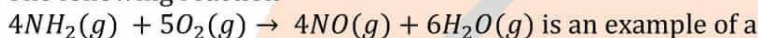
- This question paper contains four sections – A, B, C, and D. Each part is compulsory.
- Section – A has 4 MCQ of one mark each.
- Section – B has 5 questions of two marks each.
- Section – C has 2 questions of three marks each.
- Section – D has 1 questions of five marks.

### Section - A

1. Which of the following is not a physical change?

- a) Boiling of water to give water vapor
- b) Melting of ice to give water
- c) Dissolution of salt in water
- d) Combustion of Liquefied Petroleum Gas (LPG).

2. The following reaction



- (i) displacement reaction    (ii) combination reaction    (iii) redox reaction    (iv) neutralization reaction
- a) (i) and (iv)
  - b) (ii) and (iii)
  - c) (i) and (iii)
  - d) (iii) and (iv)

3. Which of the following are exothermic processes?

- (i) Reaction of water with quicklime    (ii) Dilution of an acid
- (iii) Evaporation of water    (iv) Sublimation of camphor (crystals)
- a) (i) and (ii)
  - b) (ii) and (iii)
  - c) (i) and (iv)
  - d) (iii) and (iv).

4. Solid calcium oxide reacts vigorously with water to form calcium hydroxide accompanied by liberation of heat. This process is called slaking of lime. Calcium hydroxide dissolves in water to form its solution called lime water. Which among the following is (are) true about slaking of lime and the solution formed?

- (i) It is an endothermic reaction
- (ii) It is an exothermic reaction
- (iii) The *pH* of the resulting solution will be more than seven
- (iv) The *pH* of the resulting solution will be less than seven
- a) (i) and (ii)
  - b) (ii) and (iii)
  - c) (i) and (iv)
  - d) (iii) and (iv)

### Section - B

5. Why should a magnesium ribbon be cleaned before burning in air?

6. Write a balanced chemical equation with state symbols for the following reactions. Solutions of Barium Chloride and sodium sulfate in water react to give insoluble Barium Sulfate and the solution of sodium Chloride.

7. A solution of a substance 'X' is used for white washing.

- (i) Name the substance 'X' and write its formula.
- (ii) Write the reaction of the substance 'X' named in (i) above with water.

8. Oil and fat containing food items are flushed with Nitrogen. Why?

9. What are the characteristics of a chemical reaction?

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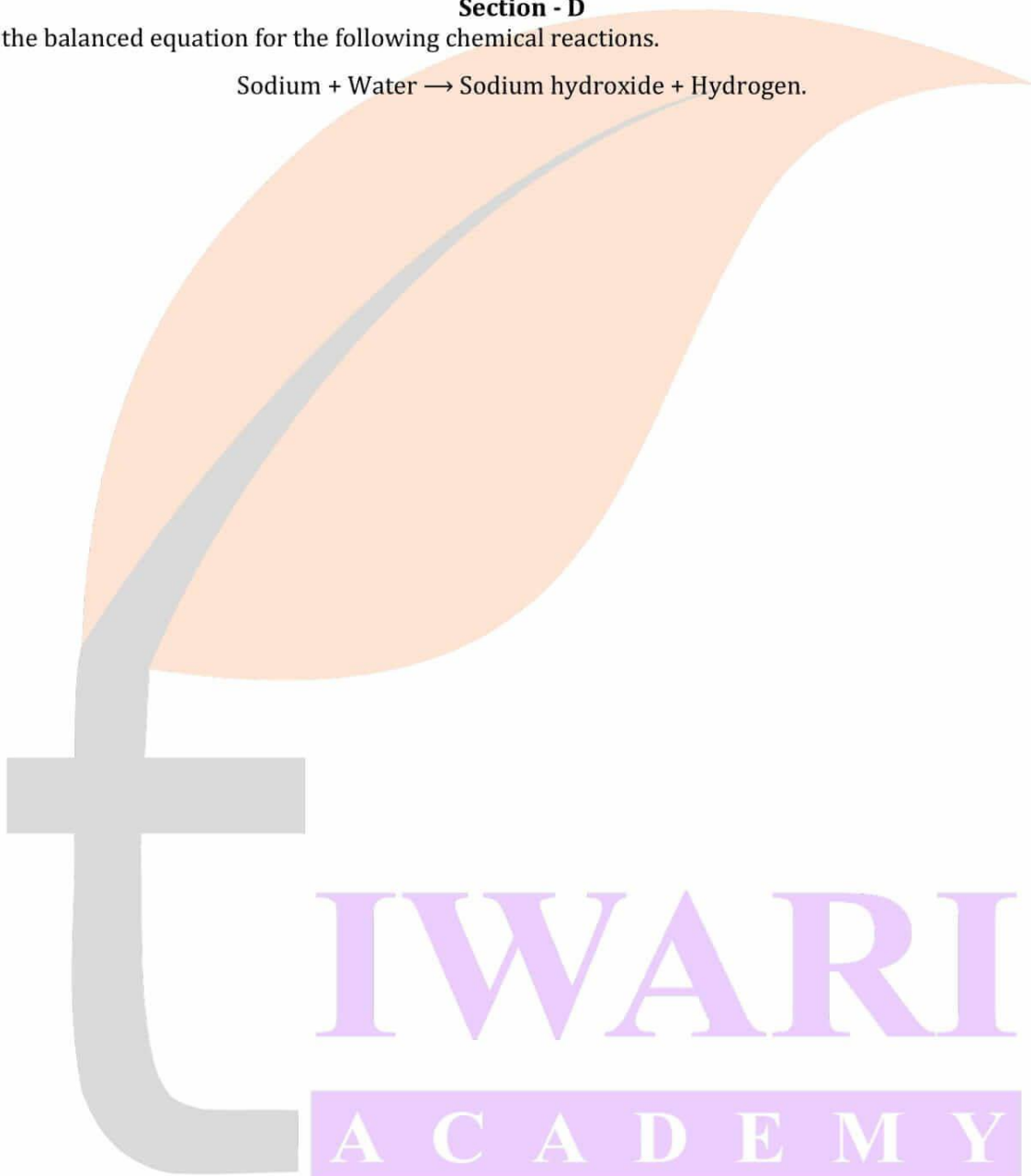
## Section - C

10. What does one mean by exothermic and endothermic reactions? Give examples.
11. What do you mean by a precipitation reaction? Explain by any one example.

## Section - D

12. Write the balanced equation for the following chemical reactions.

Sodium + Water  $\rightarrow$  Sodium hydroxide + Hydrogen.



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