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NCERT Class VIII Science Solutions: Chapter 6 - Combustion and Flame Part 1

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MULTIPLE CHOICE QUESTIONS

Question 1:

A substance which reacts with oxygen giving heat is called a combustible substance. Which, one of the following is a combustible substance?

1. Iron nail
2. Glass
3. Stone piece
4. Wood

Answer: D

Combustible substances :-

Substances which burn in air to produce heat and light are called **combustible substances**.

Eg :- wood, coal, charcoal, kerosene, petrol, diesel, liquified petroleum gas (LPG), compressed natural gas (CNG) etc.

Wood



Coal



LPG



Kerosene



Question 2:

Which one of the following has the highest calorific value?

1. Kerosene
2. Biogas
3. LPG
4. Petrol

Answer: C

High and Low Calorific Values

Calorific values are of two types as,

- (i) High or Gross Calorific Value (H.C.V. or G.C.V.)
- (ii) Low or Net Calorific Value (L.C.V. or N.C.V.)

High calorific value may be defined as, the total amount of heat produced when one unit of the fuel has been burnt completely and the combustion products have been cooled to 16°C or 60°F .

Question 3:

Magnesium ribbon on burning in air produces

- 1. Magnesium oxide, water and light
- 2. Magnesium oxide and heat
- 3. Magnesium oxide, heat and light
- 4. Magnesium oxide, water and heat

Answer: C

Question 4:

Which of the following is not a combustible substance?

1. Camphor
2. Glass
3. Straw
4. Alcohol

Answer: B

Question 5:

The substance that does not burn with flame is

1. LPG
2. Camphor
3. Dry grass
4. Charcoal

Answer: D

Question 6:

On placing an inverted tumbler over a burning candle, the flame extinguishes after some time. This is because of non-availability of

1. Oxygen
2. Water vapours
3. Carbon dioxide
4. Wax

Answer: A

Question 7:

If a person's clothes catches fire, the best way to extinguish the fire is to:

1. Throw water on the clothes.
2. Use fire extinguisher.
3. Cover the person with a woolen blanket.
4. Cover the person with a polythene sheet.

Answer: C