

# St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi – 110092

Session: 2024 – 2025

(Worksheet-4)

Class: VIII

Subject: Science

Chapter: Combustion and flame

## Q.1. Define:

- a) Inflammable substances
- b) Ignition temperature
- c) Soot
- d) Calorific value

## Q.2. Fill in the blanks:

- a) The burning of substance takes place when oxygen is present then it is called \_\_\_\_\_.
- b) Substances that don't catch fire in the presence of oxygen are called \_\_\_\_\_.
- c) The minimum temperature required by any substance to catch fire or burn is called \_\_\_\_\_.
- d) The flame of Bunsen burner becomes blue due to the sufficient supply of \_\_\_\_\_.
- e) \_\_\_\_\_ And \_\_\_\_\_ substances are examples of the explosion.

## Q.3. Multiple Choice Questions:

- a) Which one of the following has the highest calorific value?  
(a) Kerosene      (b) Biogas      (c) LPG
- b) If a person's clothes catch fire, the best way to extinguish the fire is to  
(a) throw water on the clothes  
(b) use fire extinguisher  
(c) cover the person with a woollen blanket.
- c) The calorific value of a fuel is expressed in a unit called  
(a) kilojoules per litre  
(b) Kilogram per millilitre  
(c) kilojoules per kilogram
- d) In villages, people use wood as fuel because  
(a) it is considered to be an ideal fuel  
(b) Of its easy availability and low cost  
(c) It is environment friendly

## Q.4. State whether the following statement is true or false.

- a) A physical process in which a substance reacts with oxygen to give off heat is called combustion
- b) Increased concentration of nitrogen in air is believed to cause global warming.

- c) Middle zone is the hottest zone of a flame.
- d) The substances which vaporize during burning, give the flame

**Q.5. Short Questions Answers:**

- a) Why sodium is kept immersed in kerosene?
- b) Why isn't hydrogen gas used as a domestic or industrial fuel, although it has a very high calorific value?
- c) Although wood has a very high calorific value, we still discourage its use as a fuel. Explain.
- d) Can the process of cellular respiration be called combustion? Why?