

St. Andrews Scots Sr. Sec. School

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Session: 2024 – 2025

(Worksheet-4)

Class: VIII

Subject: Science

Chapter: Combustion and flame

Q.1. Define:

- Inflammable substances
- Ignition temperature
- Soot
- Calorific value

Q.2. Fill in the blanks:

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

Q.3. Multiple Choice Questions:

- Which one of the following has the highest calorific value?
(a) Kerosene (b) Biogas (c) LPG
- 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.
- The calorific value of a fuel is expressed in a unit called
(a) kilojoules per litre
(b) Kilogram per millilitre
(c) kilojoules per gram
- 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 physical process in which a substance reacts with oxygen to give off heat is called combustion
- 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?