

Name: _____ Date: _____

Combustion and Flame

Q1. What are the three zones of flame?

Ans. _____

Q2. What is combustion? Give example.

Ans. _____

Q3. Why food is called fuel for our body?

Ans. _____

Q4. Why is the innermost zone of a flame black in colour?

Ans. _____

Q5. Explain how CO₂ is able to control fires.

Ans. _____

Q6. Which is the best fire extinguisher for fires involving electrical equipment and inflammable materials like petrol?

Ans. _____

Combustion and Flame

Q1. What are the three zones of flame?

Ans. There are three different zones of a flame – innermost zone (dark zone), middle zone (luminous zone) and outer zone non-luminous zone.

Q2. What is combustion? Give example.

Ans. A chemical process in which a substance reacts with oxygen to give off heat is called combustion. Example: Burning of charcoal.

Q3. Why food is called fuel for our body?

Ans. Food is called fuel for our body because in our body food is broken down by reaction with oxygen and heat is produced.

Q4. Why is the innermost zone of a flame black in colour?

Ans. The innermost zone of a flame is black in colour due to presence of unburnt vapours of the combustible material.

Q5. Explain how CO_2 is able to control fires.

Ans. CO_2 , being heavier than oxygen, covers the fire like a blanket. Since the contact between the fuel and oxygen is cut off, the fire is controlled.

Q6. Which is the best fire extinguisher for fires involving electrical equipment and inflammable materials like petrol?

Ans. For fires involving electrical equipment and inflammable materials like petrol, carbon dioxide (CO_2) is the best extinguisher.