

Name: _____ Date: _____

Combustion and Flame

Q1. How is fire caused by electricity extinguished?

Ans. _____

Q2. What are inflammable substances? Give examples.

Ans. _____

Q3. Which zone of a flame does a goldsmith use for melting gold and silver and why?

Ans. _____

Q4. What is the colour of the different zones of a flame?

Ans. _____

Combustion and Flame

Q1. How is fire caused by electricity extinguished?

Ans. For fires involving electrical equipment, carbon dioxide (CO₂) is the best extinguisher. CO₂, 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.

Q2. What are inflammable substances? Give examples.

Ans. The substances which have very low ignition temperature and can easily catch fire with a flame are called inflammable substances. Examples of inflammable substances are petrol, alcohol, Liquefied Petroleum Gas (LPG), etc.

Q3. Which zone of a flame does a goldsmith use for melting gold and silver and why?

Ans. Goldsmith use the outermost zone of the flame for melting gold and silver because in the outermost zone (or non-luminous zone) of a flame, complete combustion of the fuel takes place and is the hottest part of the flame.

Q4. What is the colour of the different zones of a flame?

Ans. A flame consists of three zones.

The innermost zone of a flame is dark (or black)

The middle zone of a flame is yellow.

The outer zone of a flame is blue.