

St. Andrews Scots Sr. Sec. School

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Session: 2022-2023 - Worksheet – 6

Class: VIII

Subject: Science

Topic: Combustion and Flame

Q.1 Define:

- a) Inflammable substances
- b) Kindling point
- c) Incomplete combustion
- d) Dark zone
- e) Processed fuels

Q.2 Fill in the blanks

- a) A _____ process in which a substance reacts with _____ to give off heat is called combustion.
- b) When the clothes of a person catch _____, the person is covered with a _____ to extinguish fire.
- c) The _____ temperature at which a substance catches fire is called its _____ temperature.
- d) The substances which have very _____ ignition temperature and can easily catch fire with a flame are called _____ substances.
- e) The substances which vapourise during _____, give flame.

Q.3 Very Short Question Answers:

- a) Give two examples of non-combustible substances.
- b) What are the three essential requirements for combustion?
- c) What is the ignition temperature of phosphorus?
- d) What is the S.I. unit of calorific value of a fuel?
- e) Name the most common fuel used in homes.

Q.4 Multiple choice questions:

- a) **Which one of the following has the highest calorific value?**
 - (a) kerosene
 - (b) LPG
 - (c) biogas
 - (d) petrol

b) Which of the following is not a combustible substance?

- (a) camphor
- (b) straw
- (c) glass
- (d) alcohol

c) The substance that does not burn with flame is

- (a) LPG
- (b) dry grass
- (c) camphor
- (d) charcoal

d) The substance expected to have the highest ignition temperature out of the following is

- (a) kerosene
- (b) coal
- (c) petrol
- (d) alcohol

e) Which among the following is considered as the cleanest fuel?

- (a) cow dung cake
- (b) kerosene
- (c) petrol
- (d) hydrogen gas

Q.5 Answer the following questions:

- a) Although wood has a very high calorific value, we still discourage its use as a fuel. Explain.
- b) Manu was heating oil to fry potato chips. The cooking oil all of sudden caught fire; he poured water to extinguish the fire. Do you think this action was suitable? If yes, why? If not, why not? In such a condition what should Manu have done?