

**PSBB LEARNING LEADERSHIP ACADEMY**

**2021-2022**

**CLASSWORK ASSIGNMENT**

**GRADE- VIII      SUBJECT –SCIENCE**

**FUELS AND ENERGY**

**DO AS DIRECTED:**

**I. Give a scientific term:**

- a) The lowest temperature at which a substance catches fire and undergoes combustion liberating heat and light –**Ignition temperature**
- b) The amount of heat evolved when one gram of the fuel is burnt completely in oxygen – **calorific value**

**II. Give an example each for the following:**

- a) Rapid combustion: Burning of LPG
- b) Spontaneous combustion: Burning of phosphorus in air

**III. ANSWER THE FOLLOWING:**

**1. Why piped natural gas and LPG are considered good fuels for domestic use?**

Natural gas and LPG are considered as good fuels for domestic use because they are easy to carry, store and are not highly inflammable and has a sufficiently high calorific value.

**2. The use of fossil fuel is harmful to us. Explain the statement.**

The main reason why fossil fuels cause so much damage is due to the amount of carbon dioxide or CO<sub>2</sub> emitted when fossil fuels are burned. This burning and release of CO<sub>2</sub> is a huge contributor to the greenhouse effect and climate change. Burning fossil fuels causes air pollution and smog.

**3. Draw a fully-labeled diagram showing the different parts of a candle flame.**



