

WORK SHEET
SECOND TERM
SUBJECT- SCIENCE
LESSON- COMBUSTION AND FUEL
CLASS- VIII

Q.1. Answer the following questions in 30- 40 words:

- a-What is meant by luminous and nonluminous flames?
- b-Name two damaging effects of burning of coal and petroleum.
- c-Mention any two characteristics that you would consider for selecting the most ideal fuel.
- d-What is acid rain?How does it affect the iron structures?

Q.2. Answer the following questions in 80- 100 words:

- a-What is a combustible substance?Give suitable examples.
- b-Draw a labelled diagram showing four zones of a candle flame.
- c-An electric spark is passed between two electrodes placed near each other inside a tightly closed tin can full of petrol/diesel, will the petrol/diesel catch fire? Give reason in support of your answer.
- d-How are fuels classified ? Give two examples of each class.
- e-Name the various pollutants produced by the combustion of fossil fuels . Also mention their harmful effects.

Q.3. Define the following terms

- a-Ignition Temperature
- b-Complete Combustion
- c-Luminous flame
- d-Fuels
- e-Characteristics of an Ideal fuel

Q.4. Write one word for the following

- a-The process in which a substance combines with oxygen producing heat and light.
- b-The combination reaction that takes place in the presence of insufficient air of another substance.

Q.5. Match the following:

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| a- combustible substance | i-Fire fighting |
| b-Carbon dioxide | ii-Fuels |
| c-Hydrocarbons | iii-Complete combustion |
| d-Hottest part of the candle flame | iv-Kilo joule per gram |
| e-Calorific value | v-Paper |

Q.6. Choose the correct answer:

- a-Which of the following has the lowest ignition temperature?
i-Petrol ii-Kerosene iii-coal iv-LPG
- b-The substance having the highest calorific value is
i-LPG ii-Hydrogen iii-Oxygen iv-coal gas
- c-Which of the following gives a pollution free environment when burnt
i-Dung cake ii-Kerosene iii-Wood iv-Biogas
- d-What is produced during combustion of substance
i-Light ii-Heat iii-Both heat and light iv-None of the above
