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Excercise

1. List conditions under which combustion can take place. Answer:

The conditions required for combustion to take place are:

- Presence of a fuel
- Air (or oxygen)
- Ignition temperature (minimum temperature at which a substance catches fire).

	2.	Fill	in	the	b	lan	ks:
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- (a) Burning of wood and coal causes _____of air.
- (b) A liquid fuel used in homes is _____.
- (c) Fuel must be heated to its ______before it starts burning.
- (d) Fire produced by oil cannot be controlled by _____.
 Answer:
- (a) Burning of wood and coal causes pollution of air.
- (b) A liquid fuel used in homes is LPG.
- (c) Fuel must be heated to its <u>ignition temperature</u> before it starts burning.
- (d) Fire produced by oil cannot be controlled by water.

the use of CNG has reduced pollution in our cities.

3. Explain how the use of CNG in automobiles has reduced pollution in our cities.

Answer:

Combustion of fuels like petroleum causes formation of un-burnt carbon particles along with carbon monoxide gas. These harmful pollutants enter the air and cause respiratory diseases. Compressed Natural Gas (CNG) produces these harmful products in very less quantity. It is a comparatively cleaner fuel. Therefore,

4. Compare LPG and wood as fuels. Answer:

LPG Wood It has more calorific value It has less calorific value about about 55000 kJ/kg 17000 to 22000 kJ/kg On burning wood release unburnt It does not cause any carbon particles which cause environmental problem. diseases such as asthma It is smokeless fuel. It gives out lot of smoke It is easy to store and can It needs a lot of space to store be easily transported in also very difficult to transport. cylinders and pipelines.

Low Ignition temprature High Ignition temprature

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