

EXERCISE # 1**> VERY SHORT ANSWER TYPE QUESTIONS**

- Q.1** Name any two products of petroleum refining.
- Q.2** Name the petroleum product used for surfacing of roads.
- Q.3** How is coke obtained
- Q.4** Name the purest form of carbon.
- Q.5** How is coal tar formed ?
- Q.6** Give the main use of coal gas.
- Q.7** How is petroleum formed ?
- Q.8** Why is petroleum called a fossil fuel ?
- Q.9** What is meant by refining of petroleum ?
- Q.10** Where is petroleum found in India ?
- Q.11** Name the fraction of petroleum used for making ointments and candles.
- Q.12** Expand CNG.
- Q.13** Name two fuels which are used for running automobiles.
- Q.14** Why is food regarded as a fuel for our body?
- Q.15** Name a liquid fuel which is used in homes?
- Q.16** Write the full forms of (a) CNG (b) LPG

EXERCISE # 2

➤ SHORT ANSWER TYPE QUESTIONS

- Q.1** Why are coal and petroleum known as fossil fuels ?
- Q.2** Give two characteristics of coal.
- Q.3** Give two use of coke.
- Q.4** Why should the fossil fuels be used with care ?
- Q.5** (a) Name two places in India where oil wells are found ?
(b) When and where in India where oil wells first found ?
- Q.6** (a) Name the products obtained when coal is heated in the absence of air.
(b) Write any two uses of its products.
- Q.7** How is 'petrol' related to 'petroleum' ? Name four most important products obtained from petroleum.

Q.8 Name three products of distillation of petroleum and give their uses.

- Q.9** Give reasons –
(i) LPG is a better domestic fuel than wood.
(ii) Water is not used to control fires involving electrical equipment.

➤ LONG ANSWER TYPE QUESTIONS

- Q.10** (a) What is CNG ? Give its one use.
(b) From which natural substance are liquid fuels formed ?
(c) Which gas is the main constituent of LPG ?
(d) How was petroleum formed in nature ?
(e) Why do green leaves not catch fire easily?
- Q.11** How is coal formed ?

ANSWER KEY

EXERCISE # 1

- Sol.1** Kerosene and Petrol
- Sol.2** Bitumen
- Sol.3** Coke is obtained by heating coal in the absence of air.
- Sol.4** Coke.
- Sol.5** When destructive distillation of coal is done, the vapours which condense in the water form coal tar.
- Sol.6** Coal gas is mainly used as a fuel in the coal processing plants.
- Sol.7** Petroleum is formed by the decomposition of dead aquatic plants and animals.
- Sol.8** Petroleum is called a fossil fuel as it is obtained from the bodies of dead organisms.
- Sol.9** The separation of different fractions of petroleum on the basis of their different boiling points is known as refining of petroleum.
- Sol.10** In India, petroleum is found in Assam, Gujarat, Bombay High and in the river basins of Godavari and Cauvery.
- Sol.11** Paraffin wax.
- Sol.12** CNG is Compressed Natural Gas.
- Sol.13** Petrol and Compressed Natural Gas (CNG)
- Sol.14** Food reacts with oxygen in our body and is broken down into simpler food with the production of heat. Hence it is regarded as a fuel for our body.
- Sol.15** Kerosene
- Sol.16** (a) CNG – Compressed Natural Gas
(b) LPG – Liquefied Petroleum Gas

EXERCISE # 2

Sol.1 Coal and petroleum are formed from the dead remains of living organisms that is why they are called fossils fuels.

Sol.2 Coal is hard and is of black in colour.

Sol.3 Coke is used in the extraction of metals and in the manufacture of steel.

Sol.4 If we use fossil fuels carefully, it will result in better environment, less risk of global warming and thdy will be available for longer period.

Sol.5 (a) Oil wells are found in Assam and Bombay high.

(b) The first oil wills were found at Makum in Assam in 1867.

Sol.6 (a) Coke is formed when coal is heated in absence of air.

(b) Coke is used :

– as a fuel.

– as a reducing agent in the extraction of metals.

Sol. 7 Petrol is one of the fractions obtained during fractional distillation of petroleum. Petrol, diesel, kerosene and lubricating oil are four most important products obtained from petroleum.

Sol.8

A	B
(i) Petrol	Scooter
(ii) Liquefied Petroleum Gas	Cooking
(iii) Coal	Thermal Power Station

Sol.9 (i) 1. LPG (55000 kJ/kg) has higher calorific value than wood (17000-22000 kJ/kg).

2. LPG does not gives smoke and any harmful gases but wood gives smoke and harmful gases like CO on burning.

So LPG is a better domestic fuel than wood.

(ii) Water is not used to control fires involving electrical equipment because water may conduct electricity and harm those trying to extinguish the fire.

Sol.10 (a) CNG – Compressed Natrual Gas. It is used as a fuel.

(b) All liquid fuels are formed from petroleum.

(c) Butane is the main constituent of LPG.

(d) Petroleum is formed by the sedimentation of dead remains of microscopic marine plants and animals, which were buried under the surface of the earth, millions of years ago.

(e) Green leaves do not catch fire easily because they contain moisture.

Sol.11 Coal is formed by the slow decay of dead trees buried under the earth. As the trees died, they were covered by mud and sand. This process continued for millions of years. Sometimes earthquakes and volcanoes buried entire forests deep inside the eath. The high temperature and pressure inside the earth slowly converted the buried vegetation into coal.

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