

NCERT SOLUTIONS

CLASS - 8TH



aglasem.com

Class : 8th

Subject : Science

Chapter : 5

Chapter Name : COAL AND PETROLEUM

Q1 What are the advantages of using CNG and LPG as fuels?

Answer. The advantages of using compressed natural gas (CNG) and liquified petroleum gas (LPG) as fuels are:

- (i) They can be burnt directly.
- (ii) They can be transported easily through pipelines.
- (iii) They are clean fuels and do not give smoke when burnt.
- (iv) They give a lot of heat energy when burnt.

Page : 62 , Block Name : Exercise

Q2 Name the petroleum product used for surfacing of roads.

Answer.Bitumen, a petroleum product, is used for surfacing roads.

Page : 62 , Block Name : Exercise

Q3 Describe how coal is formed from dead vegetation. What is this process called?

Answer. Millions of years ago, dense forests got buried under the soil due to natural processes like storms, floods, and earthquakes. These got compressed as more and more soil got deposited over them. When they got buried deep in the soil, they were exposed to very high pressure and temperature. Under these conditions, these slowly got converted into coal. This process of formation of coal from dead vegetation is called carbonization.

Page : 62 , Block Name : Exercise

Q4 Fill in the blanks.

- (a) Fossil fuels are _____ , _____ and _____.
- (b) Process of separation of different constituents from petroleum is called _____ .
- (c) Least polluting fuel for vehicle is _____.

Answer. (a) Fossil fuels are coal, petroleum and natural gas

(b) Process of separation of different constituents from petroleum is called refining

(c) Least polluting fuel for vehicles is compressed natural gas (CNG)

Page : 62 , Block Name : Exercise

Q5 Tick True/False against the following statements.

- (a) Fossil fuels can be made in the laboratory. (T/F)
- (b) CNG is more polluting fuel than petrol. (T/F)
- (c) Coke is almost pure form of carbon. (T/F)
- (d) Coal tar is a mixture of various substances. (T/F)
- (e) Kerosene is not a fossil fuel. (T/F)

Answer. (a) Fossil fuels can be made in the laboratory. (F)

(b) CNG is more polluting fuel than petrol. (F)

(c) Coke is almost pure form of carbon. (T)

(d) Coal tar is a mixture of various substances. (T)

(e) Kerosene is not a fossil fuel. (F)

Page : 62 , Block Name : Exercise

Q6 Explain why fossil fuels are exhaustible natural resources.

Answer. Fossil fuels require millions of years to form from the dead vegetation and animals that get buried deep inside the Earth. They require high temperature and pressure for their formation, which cannot be provided in the laboratory. Thus, fossils are limited. Therefore, the use of fossil fuels at this rate will lead to their exhaustion.

Page : 62 , Block Name : Exercise

Q7 Describe characteristics and uses of coke.

Answer. Characteristics of coke are:

(i) Tough

(ii) Porous

(iii) Black in colour

Uses of coke:

(i) In manufacture of steel.

(ii) In the extraction of metals (as a reducing agent).

Page : 63 , Block Name : Exercise

Q8 Explain the process of formation of petroleum.

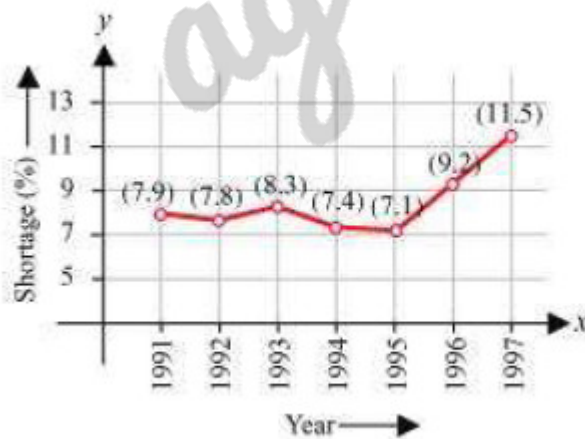
Answer. Petroleum was formed from dead organisms that got buried in the sea millions of years ago. These dead bodies got covered with layers of sand and clay. Lack of air, high temperature, and high pressure transformed these dead organisms into petroleum and natural gas.

Page : 63 , Block Name : Exercise

Q9 The following Table shows the total power shortage in India from 1991–1997. Show the data in the form of a graph. Plot shortage percentage for the years on the Y-axis and the year on the X-axis

S. No.	Year	Shortage (%)
1	1991	7.9
2	1992	7.8
3	1993	8.3
4	1994	7.4
5	1995	7.1
6	1996	9.2
7	1997	11.5

Answer.



Page : 63 , Block Name : Exercise