



## CLASS NOTES-ANSWERS

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

**Answer:** The advantages of using CNG and LPG as fuels are:

- They burn with a smokeless flame and so do not cause any pollution.
- They leave no ash on burning.
- They are easy to handle and convenient to store.

2. Name the petroleum product used for surfacing of roads.

**Answer:** Bitumen

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

**Answer:** Millions of years ago, trees, plants and forests got buried below the rocks, soil and sand due to natural processes like flooding, earthquake, etc. Slowly, as more soil is deposited over them, they were compressed. This led to the conditions of high pressure and heat. These conditions along with the anaerobic conditions turned the carbon-enriched organic matter of wood into coal. As coal contains mainly carbon, the slow process of conversion of dead vegetation into coal is called carbonization.

4. Fill in the blanks.

a) Fossil fuels are -----, ----- and -----.

**Answer:** coal, petroleum and natural gas

b) Process of separation of different constituents from petroleum is called -----.



Answer: refining

c) Least polluting fuel for vehicle is -----.

Answer: CNG

5. 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] ✓

6. Explain why fossil fuels are exhaustible natural resources.

Answer: Fossil fuels take millions of years to be formed. They are limited in nature and cannot be replenished easily, once consumed. They cannot be made in the laboratories. Hence, they are considered as exhaustible natural resources.

7. Describe the characteristics and uses of coke.

Answer:

Characteristics of coke:

- Coke is 98% pure carbon.
- It is a tough, porous and black substance.
- It produces a very little smoke.

Uses of coke:

- Coke is very useful as a fuel.
- It is used in the manufacture of steel.
- It is used in the extraction of many metals.



8. Explain the process of formation of petroleum.

**Answer:** Petroleum is formed by the burial of aquatic plants and animals

below the sea bed. As the marine animals and plants died, their bodies settled at the bottom of the sea and got covered with layers of sand and clay. Over millions of years, absence of air, high temperature and high pressure transformed the dead organisms into petroleum.

9. 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.

Sl. 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:**

