

**HOTS:**

1. Write the names of two natural substances.
2. What is the purest form of carbon?
3. What is the main use of coke?
4. Name two fractions of petroleum.
5. Why petroleum is called black gold?
6. Expand PCRA.
7. What are natural resources? Explain with examples.
8. What are fossil fuels? Name main fossil fuel.
9. What is coal tar? What are its uses?
10. Why CNG is called clean fuel?
11. State some harmful effects of using fossil fuels?
12. What are petrochemicals?

**SHORT QUESTIONS:**

1. Name two man-made substances, two natural and two exhaustible substances.
2. Name the gas which is formed when coal is heated in the absence of air.
3. Where was the first oil well drilled?
4. How many substances are found in coal tar?
5. Name the places where natural gas is found in India.
6. What are exhaustible natural resources? Explain with examples.
7. What is coal gas? Write its uses.
8. What is petroleum? What is it called black gold?
9. Describe the process of formation of coal in the nature.
10. What is main component of LPG?

**LONG ANSWER TYPE QUESTIONS:**

1. Expand CNG and write its uses. (3)
2. What is the main component of CNG and LPG. (2)
3. Write two uses of coke. (2)
4. What happens when wood is heated in absence of air? (2)
5. Why coal and petroleum are called fossil fuels? (3)
6. How does coal formation takes place in nature? (4)
7. What are the components of petroleum? Write its uses. (4)
8. Explain advises given by PCRA for saving petrol and diesel. (4)
9. What are natural resources? Classify them. Write examples. (5)
10. What are petrochemicals? (1)

**Case study-based question:**

Q1. A certain student of your class wanted to know about sustainable development from his science teacher. The teacher explained him vividly about the pros and cons of the topic. The teacher then judged the student with the following questions, you too get this opportunity-

1. Name the products obtained and their uses when coal is processed in industry.
2. We say fossil fuels will last only for a few hundred years. Comment.
3. We read in newspapers that burning of fuels is a major cause of global warming. Explain why.

Q2. Karuna was really feeling bad that his father was driving at a constant speed, while other cars and vehicles overtakes their car. Karuna asked his father to move like a superhero and overtakes other cars on the road. Father gave a smile and explained the matter.

1. What he might have said to Karuna?
2. While driving what are the tips, we must follow to save petrol/diesel/natural gas?

Q3. Imagine that all the exhaustible natural resources are exhausted by human activities. Do you think survival of living beings would be possible.?

1. If yes, why? If not, why not?
2. Why petrol is exhaustible natural resource, whereas sunlight is not? Explain.
3. Write some important uses of the various constituents of petroleum.

Q4. Coal reserves are said to be enough to last for another hundred years. Do you think we need to worry in such case?

1. Why or why not?
2. What steps would you suggest for the judicious use of fossil fuels?

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