

**Chapter: 13**

**Q.1 A) Choose the correct alternative and rewrite the sentence (1)**

Which of the following has a triple bond?

- |                      |                     |
|----------------------|---------------------|
| a. hydrogen molecule | b. Oxygen molecule  |
| c. Nitrogen molecule | d. Ammonia molecule |

**B) Answer the following questions. (2)**

1) Find co-related terms

Ethane :  $\text{CH}_3\text{-CH}_3$  :: Ethene : .....

2) Find the odd man out:

2) Methane, Ethene, Propane, Butane

**Q.2 A) Give scientific reasons (Any one) (2)**

1) Density of  $\text{CO}_2$  more or less than that of air.

2) Biogas is an eco-friendly fuel.

**B) Answer the following questions. (Any two) (4)**

1) Chemical Equation.

1) Complete the following chemical reaction:



2) Distinguish between

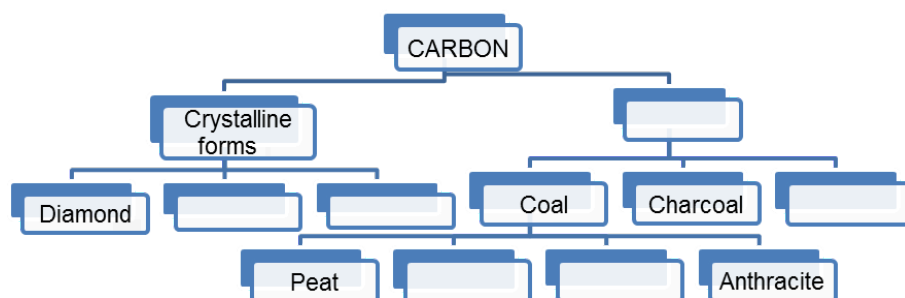
Diamond and Graphite

3) Give uses of allotropes of carbon : **Coal**

**Q.3 Answer the following questions. (Any two) (6)**

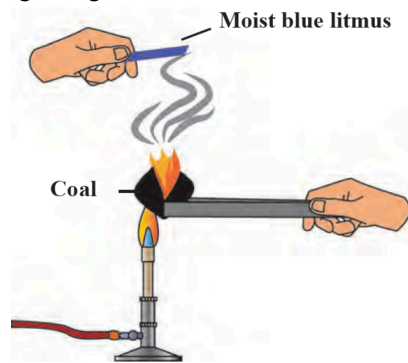
1) Petrol, diesel, coal are fossil fuels. Explain.

2) Classify Carbon



**3) Reaction of Carbon with oxygen.**

Ignite a coal on the burner and hold a moist blue litmus paper over the gas released on igniting the coal. Note the observation and answer the following questions.



- With which gas in the air does the coal react on igniting?
- What is the substance formed?
- What change takes place in the litmus paper?
- Write down the chemical reaction taking place in the above procedure.

**Q.4 Answer the following questions. (Any one)**

**(5)**

- 1) Identify the following figures and explain.

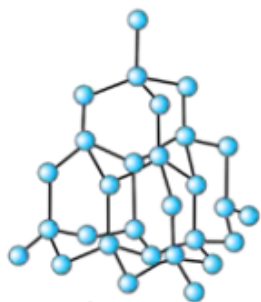


Figure A



Figure B

Prism  
Colours of your Dreams

- 2) Explain the properties of carbon.