

Std. 8. General Science

Marks : 20 Ch.14 Carbon and carbon compounds Duration : 30 min.

Q1 Fill in the blanks [3 M]

- is the first compound of hydrocarbon.
a. Butane b. Propane c. Methane
- Bituminous coal has -----percent of carbon.
a. 60 b. 80 c. 22
- In graphite crystal, six carbon atoms forms a -----and are at specific distances from one another..
a. circle b. hexagon c. bunch

Q2 Explain the following reactions, giving their balanced equations.

Any THREE [3 M]

- Sodium bicarbonate is treated with sulphuric acid.
- A mixture of hydrogen and carbon monoxide is heated to 300⁰ C.
- Carbon dioxide is passed through a solution of sodium carbonate.
- Calcium carbonate is treated with hydrochloric acid .

Q3 Distinguish between Diamond and Graphite . [2M]

Q4 Give scientific reasons . (Any TWO) [4 M]

1. Diamond is used to cut metals.
2. Carbon dioxide is used for putting out fires.
3. Marble tiles are not used in the kitchen .

Q5 Answer any TWO of the following. [4 M]

1. Write a note on : Fullerece
2. How did coal form in nature?
3. Give two properties and two uses of methane .

Q 6 Explain how is carbon dioxide gas produced in the laboratory. [4M]
