



<b>Assignment</b>
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Date: \_\_ / \_\_ / \_\_

Name: \_\_\_\_\_

Max Marks: 25

**Section- A (One Marks Each)**

- 1 Draw the electronic dot structure. (i) O<sub>2</sub> (ii) S<sub>8</sub>
- 2 What is allotropy?
- 3 What types of chemical bond are formed by carbon?
- 4 How many single covalent bonds are present in urea molecule? Write its chemical urea.
- 5 What is covalent bond?
- 6 Why methane and methyne does not exist in nature?

**Section-B (Two Marks Each)**

- 7 Differentiate between saturated and unsaturated hydrocarbons.
- 8 What is meant by catenations? Name two elements which exhibit the property of catenations.
- 9 Why carbon is said to be tetravalent?

**Section-C (Three Marks Each)**

- 10 Why do covalent compound have low melting and boiling points?
- 11 Differentiate diamond from graphite?
- 12 Define structural isomer and draw the isomeric structure of butane. Compare the structure of benzene and cyclohexane by drawing them.

**Section-D (Four Marks Each)**

- 13 (A) Draw the structure of graphite with the help of diagram  
(B) Why graphite is a good conductor of electricity?



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