| Class: VIII | Subject: Chemistry | F.M.= 40 | Time: 1 Hrs. |

Section – A (25 Marks)
Answer <u>ALL</u> questions from this section

1. **Name the following:**   [10]

   a. The neutral gas which is poisonous in nature.
   b. The state of matter that occupies a definite space but has no definite shape.
   c. The property due to which an element can exist in more than one forms.
   d. The self linking property of carbon.
   e. The gas which turns lime water milky.
   f. The state of matter in which the particles have maximum kinetic energy.
   g. The acidic gas formed when carbon burns in excess oxygen.
   h. The non metal element which is a good conductor of electricity.
    i. The crystalline allotrope of carbon having a formula of C_{60}.
    j. The state of matter which has only one free surface.

2. **Write chemical formula of the following :**   [5]

   a. Potassium chromate
   b. Nickel carbonate
   c. Iron(III)sulphite
   d. Ammonium sulphate
   e. Magnesium hydroxide

3. **Fill in the blanks by selecting the correct options :**   [5]

   a. The state of matter which has no free surface is _____ .(solid / gaseous)
   b. Carbon is a _____ agent. (oxidizing / reducing)
   c. The variety of coal containing maximum percentage of carbon is _____ .
       (lignite / anthracite).
   d. The gas which is used as a refrigerant for perishable foods is _____.
       (carbon dioxide / carbon monoxide).
   e. Pencil lead is made from _____. (iodine / graphite)

4.Match the following :   **[5]**

Column A	Column B
a. Used for decolourising oils, sugar, etc.	i. Carbon monoxide
b. Used as reducing agent.	ii. Carbon dioxide
c. Used as a precious decorative stones in jewellery.	iii. Coke
d. Used as a high temperature lubricant.	iv. Diamond
e. Used for manufacturing aerated drinks.	v. Graphite
	vi. Charcoal

SECTION – B (15 marks)
(Answer all questions)

5. Give reasons for the following :   **[3]**

(a) Graphite is called black lead.
(b) The particles in gases have very large kinetic energy.
(c) Carbon dioxide is called carbonic anhydride.

6. Give balanced chemical equations for the following reactions: **[3]**

(a) Reduction of haematite with coke.
(b) Reaction of carbon dioxide with limewater.
(c)   Combustion of carbon in limited supply of air.

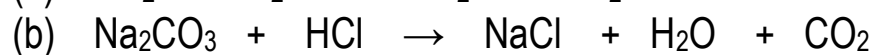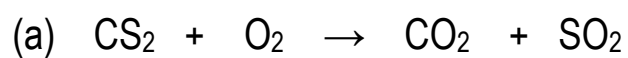**7. Write the Chemical formula of the following:**   **[3]**

(a) Washing soda
(b) Aluminium carbide
(c) Ethyl alcohol

8. Differentiate between diamond and graphite based on the given properties:[3]
(a) Crystal shape
(b) Hardness
(c) Conduction of heat and electricity

9. Balance the following equations: **[3]**

(a) CS_2 + O_2 $\rightarrow$ CO_2 + SO_2

(b) Na_2CO_3 + HCl $\rightarrow$ $NaCl$ + H_2O + CO_2

(c) Fe_2O_3 + CO $\rightarrow$ Fe + CO_2

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