

LITTLE FLOWER SCHOOL, RAPTINAGAR, GORAKHPUR
FIRST SEMESTER EXAMINATION 2021-2022

Class: VI
Chemistry

Time: 2 Hours
Max. Marks: 100

SECTION - A

I. Fill in the blanks with suitable word(s):

[10x1=10]

- 1) In _____ change, there is change in substance.
- 2) Chemistry is the science of _____ and their _____.
- 3) A substance does not change in a _____ change.
- 4) Mendeleev _____ the elements.
- 5) Alchemists could not change _____ metals into gold.
- 6) The atoms of an element are all _____.
- 7) The constituents of a mixture _____ retain their properties.
- 8) Water containing dissolved air is a _____ mixture.
- 9) The properties of a compound are _____ from those of its constituent elements.
- 10) Ammonium chloride can be _____.

II. State whether the following statements are True or False:

[10x1=10]

- 1) Carbon dioxide is a mixture of carbon and oxygen.
- 2) Priestley gave the atomic theory.
- 3) Periodic table was put forward by Dalton.
- 4) Things are ultimately made up of atoms.
- 5) The symbol of an element represents a molecule of it.
- 6) Distilled water is pure water.
- 7) Components of a mixture can be separated by chemical means.
- 8) Ammonium chloride cannot sublime.
- 9) Compounds are made up of elements.
- 10) Gold is represented by the symbol Go.

III. Match the following:

[10x1=10]

- | | |
|---------------------|-----------------|
| 1) Boyle's Law | Water |
| 2) Lustre | Chemical change |
| 3) Hydrogen | Oxygen |
| 4) Paramanus | Metals |
| 5) Priestley | Dalton |
| 6) Lavoisier | Physical change |
| 7) Atomic theory | Dull looking |
| 8) Melting of ice | Atoms |
| 9) Burning of paper | Pop sound |
| 10) Non metals | Robert Boyle |

IV. Give one word for each of the following:

[5x1=5]

- 1) A gas that neither burns nor supports burning.
- 2) A substance that sublimes on heating.
- 3) A gas which supports burning.
- 4) Method used to separate pure water from salt solution.
- 5) Method used for separating stones from sand.

V. Choose the correct option:

[5x1=5]

- 1) The periodic table of elements was given by: [Mendeleev/Lavoisier]
- 2) The molecules of which of the following substances will contain same kind of atoms.
[Hydrogen/Carbon Dioxide]
- 3) Which method can be used to separate mustard oil and water from the mixture of two
[Sublimation/Decantation]
- 4) Who authored the book 'The Sceptical Chymist'? [Robert Boyle/John Dalton]
- 5) Ammonium Chloride can be separated from sand by which method? [Sublimation/Sieving]

SECTION - B

VI. Pick the odd one out:

[5x1=5]

- 1) Melting, Freezing, Burning
- 2) Hydrogen, Carbon, Water
- 3) Water, Carbon Dioxide, Milk
- 4) Iron, Gold, Camphor
- 5) Iodine, Naphthalene, Chlorine

VII. Differentiate between the following (any 2):

[2x5=10]

- 1) Mixture and Compound
- 2) Metals and Non-metals
- 3) Physical and Chemical changes

VIII. Define the following terms (any 5):

[5x2=10]

- | | |
|-------------|-------------------|
| 1) Element | 4) Chemistry |
| 2) Atom | 5) Base metals |
| 3) Molecule | 6) Pure substance |

IX. Answer the following in detail (any 5):

[5x4=20]

- 1) a) Who was the first to prepare hydrogen? Who prepared oxygen for the first time?
b) Iron pillar near Qutub Minar in Delhi does not get rusted. Why?
- 2) What was the aim of alchemists? Did they succeed? Discuss.
- 3) Who disproved the four-element theory of the Greeks? What is meant by the elixir of life?
- 4) How did Lavoisier disprove the Greek theory of elements?
- 5) Describe sieving, giving two examples.
- 6) Which elements are represented by the following symbols?
a) K b) Na c) Br d) Zn
- 7) What is a pure substance and a mixture?

X. Draw and label the diagram of:

[5x2=10]

- | | |
|----------------|-------------------|
| 1) Test tube | 4) Wire gauze |
| 2) Beaker | 5) Conical Funnel |
| 3) Watch Glass | |

XI. Internal Assessment

[5]