

LITTLE FLOWER SCHOOL, RAPTI NAGAR, GORAKHPUR
FIRST SEMESTER EXAMINATION 2020-2021

Class: VI
Chemistry

Time: 2Hours
Max Marks: 100

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

[10×1=10]

- 1) A substance changes in a _____ change.
- 2) Chemistry is the science of _____ and their _____.
- 3) Anything that occupies _____ and has _____ is matter.
- 4) Mendeleev _____ the elements.
- 5) Alchemists could not change _____ into gold.
- 6) The atoms of an element are all _____.
- 7) Ammonium chloride can be _____.
- 8) Water containing dissolved air is a _____ mixture.
- 9) The properties of a compound are _____ from those of its constituent elements.
- 10) Mixture of sand and water can be separated by _____ method.

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

[10×1=10]

- 1). Alchemists changed iron into gold
- 2) Priestley gave the atomic theory.
- 3) Periodic table was put forward by Dalton.
- 4) Things are ultimately made up of compounds.
- 5) The symbol of an element represents a molecule of it.
- 6) Carbon dioxide is a mixture of carbon and oxygen.
- 7) Components of a mixture chemically react with one another.
- 8) Camphor cannot be sublimed.
- 9) Compounds are made up of elements.
- 10) Gold is represented by the symbol G.

III. Match the following:-

[10×1=10]

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

IV. Give one word for each of the following:-**[5×1=5]**

- 1) An imaginary liquid that would cure all diseases and help a person live long.
- 2) A non-metal which is lustrous.
- 3) A gas which supports burning.
- 4) Gas that turns limewater milky.
- 5) Method used for separating stones from sand.

V. Choose the correct option:-**[10×1=10]**

- 1) Who is considered to be the father of modern chemistry?[Lavoisier/Priestley]
- 2) The periodic table of elements was given by- [Mendeleev/ Lavoisier]
- 3) In which of following cases does the substance change?
[Burning of wood/freezing of water]
- 4) Which of the following is a physical change?
[Formation of water vapour/ Digestion of food]
- 5) Which of the options is an alloy? [Gold/ stainless steel]
- 6) Who published the book New System of Chemical Philosophy?
[Robert Boyle/John Dalton]
- 7) Ammonium Chloride can be separated from sand by which method?
[Sublimation / Sieving]
- 8) The molecules of which of the following substances will contain the same kind of atoms? [Oxygen/Water]
- 9) Which method can be used to separate mustard oil and water from a mixture of the two?
[Magnetic separation/Decantation]
- 10) Water containing dissolved air is which type of mixture?
[Gaseous/Gas-Liquid]

VI. Encircle the odd one out:-**[5×1=5]**

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

VII. Give reason :-**[2.5×4=10]**

- 1) Condensation of water vapour is a physical change
- 2) Iron pillar near Qutub Minar in Delhi does not get rusted
- 3) Burning of coal is a chemical change
- 4) A mixture of iron and sulphur is separated by magnetic separation.

VIII. Define the following terms (any 5):-

[5×2=10]

- 1) Chemistry
- 2) Matter
- 3) Molecule
- 4) Compound
- 5) Elixir of life
- 6) Pure substance

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

[5×4=20]

- 1) What was the aim of alchemists? Did they succeed? Discuss.
- 2) In what way did Mendeleev help chemistry advance?
- 3) Classify the following into pure substances and mixtures
 - i.) Air
 - ii.) Mud
 - iii.) Copper
 - iv.) Milk
 - v.) Carbon dioxide
 - vi.) Brass
 - vii.) Oxygen
 - viii.) Gold
- 4) Describe sieving, giving two examples.
- 5) What is an element? What are the symbols of the following elements?
 - i.) Carbon
 - ii.) Silicon
 - iii.) Calcium
 - iv.) Oxygen
 - v.) Phosphorus
 - vi.) Chlorine
 - vii.) Nitrogen
 - viii.) Zinc
- 6) Describe an experiment to show that hydrogen chemically combines with oxygen to form water.
- 7) Show that the properties of carbon dioxide are different from those of carbon and oxygen.

X. Draw and label the diagram of: -

[5×2=10]

- 1) Distillation
- 2) Filtration