



Holidays Home Work #1

Class: IX-A

Subject: Chemistry

Total Marks: 50

Name: _____ **Admission No.** _____

Instructions:

- Home Work-1 has been designed for the month of June and has to be completed till 30th June.
- It comprises all the compulsory questions and carries 50 Marks.
- Students must write answers/ responses on foolscap sheets.
- Both, Home Work 1 & 2, collectively, will carry 10 Marks in Mid-Term / Pre-Send Up exams.
- Submission will be due on re-opening of school.

All assignments are designed according to the requirements of BISE Lhr

Section I

Q. Give short answer to these questions.

5x2=10

1. Differentiate between Physical and Chemical properties.
2. Differentiate between matter and mixture.
3. What is empirical formula of acetic acid (CH_3COOH)? Find out its molecular mass.
4. Differentiate between homo atomic and hetero atomic molecule.
5. What is plum pudding theory?

Q. Give short answers to these questions:

5x2=10

1. Differentiate between Rutherford's and Bohr's atomic theory.
2. Give two reasons why air is a mixture and water a compound?
3. Explain why Hydrogen and Oxygen are considered as elements whereas water as a compound?
4. Define atomic mass unit. Why is it needed?
5. Define isotopes, explain the isotopes of Hydrogen.

Q. Give short answer to these questions:

5x2=10

1. Define Dobereiner's Triads, explain with two examples. .
2. Why atomic number is considered more fundamental property than atomic mass?
3. Differentiate between bond pair and lone pair.
4. What are Dipole- Dipole interaction?
5. Why is BF_3 electron deficient?

Section II

Answer these questions.

(10x 2= 20)

Q1a). Write five differences between mixture and a compound.

b). Define and explain the types of covalent bond with at least one example of each.

Q2a). Define intermolecular forces. Explain its various types with example.

b). What are the postulates of Bohr's atomic model.

