

HOMEWORK
SUBJECT: CHEMISTRY
CLASS:8th

Note: Answer all the questions in your notebooks. Also learn these answers by heart.

Recommended book: Chemistry 9th Text book by Caravan Book House, Lahore

Chapter.1

Fundamentals of Chemistry

- 1) Define chemistry and give its one role in our life.
- 2) Write names of important branches of chemistry.
- 3) Define matter, substance and element with one example for each.
- 4) Write any four differences between mixture and compound.
- 5) Define atomic number and mass number.
- 6) Define ion and its types with examples.
- 7) Write any two differences between atom and ion.
- 8) What is free radical? Give an example.
- 9) Define mole and Avogadro's Number.
- 10) State three reasons why do you think air is a mixture and water a compound?
- 11) Explain why are hydrogen and oxygen considered elements whereas water as a compound.
- 12) Define atomic mass unit. Why is it needed?
- 13) What is the significance of the symbol of an element?
- 14) Define molecular mass and formula mass.
- 15) Differentiate between homoatomic and heteroatomic molecules with example.

Chapter.2

Structure of Atom

- 1) Write four properties of cathode rays.
- 2) Write four properties of canal rays.
- 3) What observations were made by Rutherford during his experiment?
- 4) Write defects of Rutherford's Atomic Model.
- 5) Write any three differences between Bohr's Atomic Theory and Rutherford's Atomic Theory.
- 6) Define shell and subshell.
- 7) Define electronic configuration and write electronic configuration of Na₁₁, Cl₁₇ and Ar₁₈.
- 8) Define isotope and draw structure of isotopes of hydrogen.
- 9) Write any two applications of isotopes. Write down electronic configuration of Al³⁺.
How many electrons are present in its outermost shell?

Worksheet

Write electronic configuration of following elements.

- 1) Sodium -----
- 2) Argon -----
- 3) Oxygen -----
- 4) Carbon -----
- 5) Nitrogen -----
- 6) Magnesium -----
- 7) Chlorine -----
- 8) Aluminum -----
- 9) Calcium -----
- 10) Iron -----

**For assistance
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