

BRAIN INTERNATIONAL SCHOOL

Chemistry Assignment

Class IX

Nov' 2018

Chapter-4 Structure of the Atom

1. How do you know that nucleus is very small as compared to the size of atom?
2. Write two characteristics of the canal rays.
3. Write the electronic configuration of a positively charged sodium ion. Atomic number of sodium is 11.
4. The electronic configuration of phosphorus atom is 2,8,5. Give the electronic configuration of phosphorus (P^{-3}) ion.
5. The atomic number of Al and Cl are 13 and 17, respectively. What will be the number of electrons in Al^{+3} and Cl^{-1} ?
6. Write down the electron distribution of chlorine atom. How many electrons are there in the L shell?
7. Define valence electrons. Which electrons of an atom are involved in the chemical bond formation with other atoms?
8. Why do helium, neon and argon have a zero valency?
9. Why do isotopes show similar chemical properties?
10. List any three distinguishing features between the models of an atom proposed by J.J. Thomson and Ernest Rutherford.