

# Chemistry – Atomic Structure

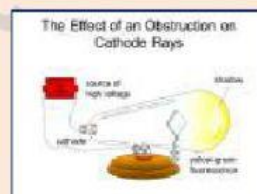
Q. 1 Match the correct pairs : ( Use the pencil and draw lines )

## Scientists

1. William Crooks
2. J.J. Thomson
3. E. Goldstein
4. Lord E. Rutherford
5. James Chadwick
6. Niels Bohr

## Discoveries

- a) Electron orbit/shells
- b) Neutrons
- c) Atomic nucleus
- d) Protons
- e) Electrons
- f) The cathode rays



Q. 2 Choose the word options and drag them into the correct places:

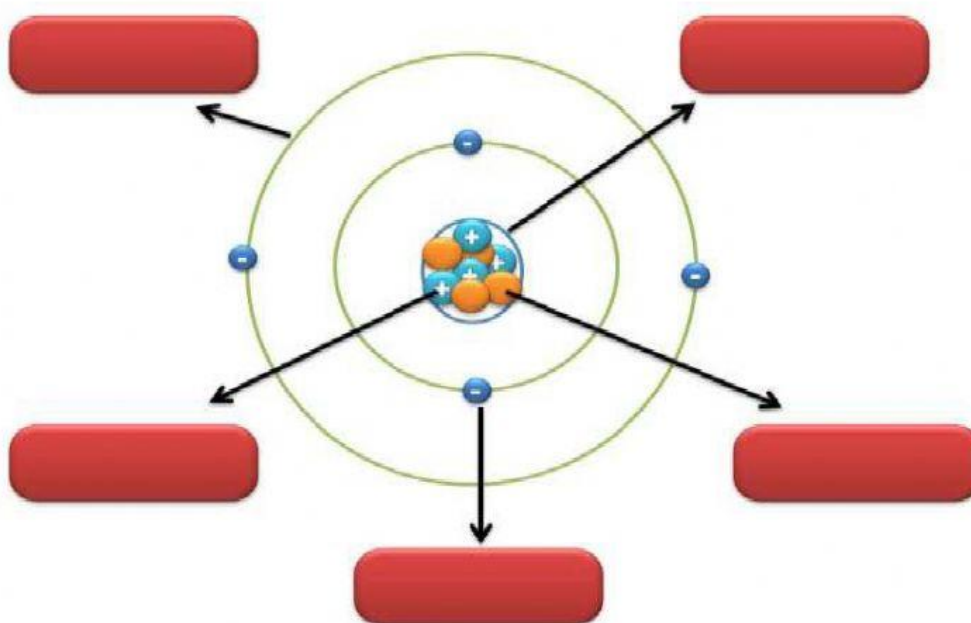
Electron

Orbit

Nucleus

Proton

Neutron



Q. 3 Complete the statements by typing the correct word from the brackets:

1. An element 'X' has six electrons in its outer or valence shell.  
Its valency is ..... [ +2 / -2 / -1 ]
2. An element 'Y' has an electronic configuration 2,8,6.  
The element 'Y' is a ..... [ metal / non-metal / noble gas ]
3. A ..... [ proton / neutron ] is a sub atomic particle with no charge and unit mass.
4. An element 'Z' with a zero valency is .....  
[ metal / non-metal / noble gas ]
5. Magnesium atom with electronic configuration 2,8,2 achieves stable electronic configuration by losing two electrons, thereby achieving stable electronic configuration of the nearest noble gas ..... [ Neon / Argon ]

Q. 4 Complete the blanks by choosing the correct option from the drop down menu:

1. Mass number of an atom is the number of protons and .....
2. The sub atomic particles with negligible mass .....
3. An atom having stable electronic configuration .....
4. .... a molecule by sharing of electrons (covalency).
5. A metallic atom having unstable electronic configuration .....