**Q1**/Define the following:

Matter

Atomic Number

Ions

Aufbau Principle

Mass Number

**Q2**/ Fill these blanks :

1. Chemistry is chiefly concerned with ----------and----------------.
2. Isotope: Atoms with the same number of ------------but a different number of-------------.
3. When d-block elements form ions, the-------- electrons are lost first.

**Q3/A**-Write a set of quantum numbers ( n , ℓ ,mℓ , ms )for:

Fe , Co , Na

**B**- Write the electronic structure for :

O2- , Cr3+

Q4:Fill these blanks :

1. Orbital is a place around the nucleus where find the ----------------.
2. The first shell is close to the ------------------.
3. Principal Quantum Number(n):Specifies the -------------- of an electron and the --------------- of the orbital.
4. When d-block elements form ions,the ------------ electrons are lost first .
5. Valence electrons are the electrons in the ------------------------------ of an atom.These are the electrons that are ------------------- or --------------- when atoms bond together .
6. Organic Chemistry is the study of ------------- atoms containing compounds and their properties.

Q5:Write all difference between Organic Compounds and Inorganic Compounds .

Q6:Write the structural formula for the following:

1. Butane 2- Di methyl ether 3- Cyclo hexane 4- Glycerin 5- Benzene