

- (i) Beta rays are made up of fast moving electrons.
- (ii) Velocity of beta particles is nearly equal to speed of light.
- (iii) Their ionizing power is less than that of Alpha particles.
- (iv) They have more penetrating power than Alpha particles.

#### PROPERTIES OF GAMMA RAYS

- (i) These rays are a type of electromagnetic waves.
- (ii) Rest mass of Gamma particles is zero.
- (iii) These rays have no charge.
- (iv) These rays are not affected by electric or magnetic field.
- (v) Speed of Gamma Rays is equal to speed of light.

#### 13.20 | LAW OF RADIOACTIVITY

**1<sup>st</sup> law:** Radioactivity is a spontaneous process but it cannot be predicted that which atom will disintegrate first.

**2<sup>nd</sup> law:** In radioactive decay either  $\alpha$  or  $\beta$  particles are emitted but both particle cannot emit simultaneously.

**3<sup>rd</sup> law:**

- During  $\alpha$  decay mass no. reduced 4 and atomic number reduced by 2 during  $\beta$  decay.
- During  $\beta$  decay no change in mass no. by atomic no. reduce by 1
- During  $\gamma$  decay there is no change in mass no. as well as atomic no. but there will be change in energy state and during the nuclear transition the energy of  $\gamma$  rays is order of MeV.

**4<sup>th</sup> law: (exponential decay law)**

Acc. to this law the rate of disintegration of radioactive substance is directly proportional to no. of atoms un-decayed at the time.

$$\frac{dN}{dt} \propto N$$

$$\frac{dN}{dt} = -\lambda N$$

$$\int_{N_0}^N \frac{dN}{N} = \int_0^t -\lambda dt$$

$$\log_e \frac{N}{N_0} = -\lambda t$$

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