## 9. PLATE TECTONICS

- Plate word was first used by Wilson.
- This theory was proposed by Herry Hess.
- Mainly six plates are there on earth-
  - American Plate
  - African Plate
  - Indo-Australian Plate
  - Pacific Plate
  - Antartica Plate
  - Eurasian Plate.
- There are two types of plates continental plates are made of Granite where oceanic plates are Besaltic.
- The biggest plate is Pacific plate
- The plates have their boundaries there can be classified into three types of margins -
  - Constructive plate Margins
  - Destructive plate Margins
  - Conservative plate Margins
- Constructive Margins: When two plates are moving in opposite direction and a fault gap occures between these. Through this gap the meama material of atmosphere comes out and a new landform parth surface is made. This Margin is also known as divergent boundary. Eg Mid Altantic ridge.

- Destructive Margins: When two plates converges towards each other, during this three types of phenomenon occures:-
  - Continental & continental plate.
  - Oceanic Oceanic plate.
  - Continental Oceanic plate.
- Continental continental plate: Oceanic plate is heavier to continental plate. Hence this subducts under continertal plate and makes a trench also sediments are folded over the surface and make new folded mountains. eg. Andis & Rocky
- Oceanic Oceanic plate: When both plates come together then the plate which is havier subducts under the lighter one and it makes oceanic french and volcanic Ilands eg:- Japan or philipines sea has subduction of Pacific plate.
- Continental continental plate: Volcanic activity doesn't occures here but folded mountain is developed eg: When Indian plate is subducted into Eurasian plate it caused Himalaya as a result.
- Coservative Margins: When two plate moves parallel to each other then it may not cause any interaction, this is also known as transform fault. eg: San Adrians Fault near california.