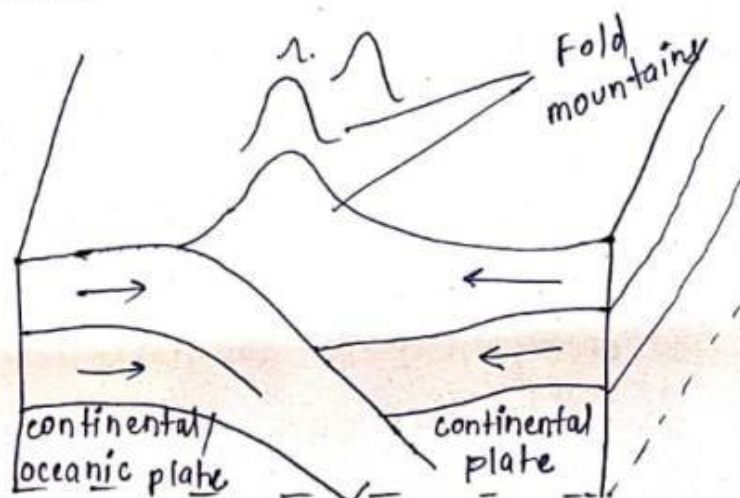


Question No.

Q.4 Why are the world's Fold Mountains system located along the margins of the continents? Bring out the association between the global distribution of ~~earthquakes~~ Fold Mountains & the earthquakes & volcanoes. (250 words).

Ans. Fold Mountains are those mountains which are formed by the convergence of 2 tectonic plates. Most of the world's fold mountains like Andes of South America are located on the margins of the continent. This can be understood by



Formation of Fold Mountains

→ When continental plate converges with continental / oceanic plate, the denser plate subducts below the lighter plate.

→ Due to this, fold mountains are formed & their height keeps on increasing as subduction zone is created.

→ In case of Andes Mountains, the South American plate collides with Pacific plate. Since Pacific plate is denser, it creates a subduction zone & thus Andes are formed.

BHOPAL

FOLD MOUNTAINS & EARTHQUAKES

As folding in Fold Mountains is a continuous process, so there may be cases of over-folding.

Due to this over-folding, cracks & faults on the plates can be created. When more folding occurs, there is a transfer of energy through these faults which gives rise to vibrations & thus earthquakes occur.

The best example of Fold Mountains which are earthquake-prone are Himalayas.

FOLD MOUNTAINS & VOLCANOES

As there is a phenomena of subduction for creation of Fold Mountains, the plate may enter the mantle. Since all the volcanic activities are associated with mantle, so it may help create an outlet through which magma can come out. Thus, volcanic eruptions occur.



Example of Fold Mountains which is an active volcano is Mt. Etna of Alps in Italy.