

CLASS - X
GEOGRAPHY AND ENVIRONMENT

Chapter : Exogenetic Processes, Works of River

1. Why delta is not formed at the mouth of all rivers?

Ans: Reasons :

- i. **Velocity of River :** Rivers with high velocity can not bring down sediment near the mouth and thus hinder the formation of delta.
- ii. **Length of River :** The short rivers cannot bring sufficient sediment near the mouth.
- iii. **Depth of river mouth :** If the depth of river mouth is more due to steep gradient then sufficient sedimentation does not occur.
- iv. **Number of tributaries :** If number of tributaries is less, then additional sediment is not available for formation of delta.
- v. **Wind :** If there is strong wind at the river mouth then strong waves and tides in the sea wash away the sediment brought down by the river and hinder the formation of delta.

2. Differentiate between Cataract & Cascade.

Ans. Difference between Cataract & Cascade:

Points of Difference	Cataract	Cascade
Origin	When a huge amount of water flows through a waterfall then it is termed as Cataract. Example: Victoria falls of Africa.	When a small waterfall falls in steps down a steep rocky slope then it is termed as Cascade. Example: Tears of the Glen in Northern Ireland.
Velocity of water	Velocity is very high.	Velocity is comparatively less than Cataract.
Height	In this case the height of waterfall is very high.	In this case the height is comparatively low.
Change in the slope of land	In case of Cataract a sudden great change in the slope of land occurs.	In case of Cascade the change is the slope of land in comparatively less.

3. Asses the importance of floodplain on human life.

Ans. Rivers in the middle and lower courses often overflow their banks in rainy season. The flood water spreads out over the adjoining areas and leaves layers of silt on the plains after they recede. Such plains are called floodplain.

Importance of floodplain on human life:

- i. Agriculture is advantageous because the area is rich in newer alluvium which makes the soil fertile.
- ii. The wetlands found here are very useful for pisciculture.
- iii. Floodplain plays an active role to recharge the groundwater resources.