

Lecture Sheet-2**Chapter: 6 Climate and Disaster****Topic-2: Riverbank erosion****Notes:**

- **Riverbank:**
The bank of a river or the land above the edge of a river.
- **Erosion:**
A place where surface tissue has been gradually destroyed by wind, water, or other natural agents.
- **Riverbank erosion:**
Riverbank erosion is the wearing away of the banks of a river through its flooding or general watercourse.
- **The reason of the riverbank erosion:**
The riverbank erosion may be both natural or manmade.
 - 1. Natural reasons:**
 - a) The main natural cause of riverbank erosion is flood.
 - b) The extra volume of water in the rivers put pressure on the banks.
 - c) Heavy rainfall is another reason for riverbank erosion.
 - d) Another responsible factor of erosion is strong current of the river.

2. Manmade reasons:

- a) Extracting sand from riverbeds
- b) Cutting down trees near riverbeds.
- c) Unplanned river excavation
- d) Dam and bridge construction.
- e) Poor soil drainage.



a) Extracting sand



b) River excavation



c) Dam and bridge



d) Poor soil drainage

- **The effects of the riverbank erosion:**

- a) Valuable farming land is lost.
- b) Losses of crops.
- c) Houses, villages, roads, railways may be lost.
- d) Cattle are died or lost.
- e) Poverty may be increased.
- f) Shortage of cropland.

- **The way to reduce of the riverbank erosion:**

- a) Stop cutting down trees
- b) Embankments are built to prevent erosion.
- c) Planting more trees.
- d) Creating public awareness.

- **The prone area of Bangladesh of riverbank erosion:**

According to the Bangladesh Water Development Board the most erosion prone districts are Bogra, Sirajganj, Kurigram, Lalmonirhat, Gaibandha, Rangpur in the country's north, and Chadpur, Manikgonj, Rajbari, Shariatpur and Faridpur in Dhaka zone with Tangail and Jamalpur in Mymensingh zone and the coastal areas of Patuakhali.

- **Who are responsible for the river banks/ The role of the Government for the riverbank erosion:**

The Water Development Board are responsible for protecting the river banks erosion.

- a) Building embankments for flood protection.
- b) Maintaining sluice gates and culverts for irrigation.
- c) Creating systems of flood warnings.
- d) Providing free food, free treatment.
- e) Providing them shelter.
- f) Creating public awareness.

- **Flood:**



The definition of flood is an overflow of a large amount of water beyond its normal limits onto normally dry land.

- **The reasons of the flood:**

- a) Heavy rainfall.
- b) Overflowing rivers.
- c) Broken dams.
- d) Melting snow and ice.
- e) Natural disaster out at the sea like tsunamis.



a) Heavy rainfall



b) Melting snow and ice



c) Natural disaster of tsunami

- **The effects of the flood:**

The floods have both good effects and bad effects.

1.Good effects:

- a) Floods bring a lot of minerals and nutrients to Oceans.
- b) It increases the groundwater levels.
- c) It brings sediments which increase the fertility of the soil.
- d) Floods, if properly stored in dams and lakes can reduce water crises.

2.Bad effects:

- a) Loss of human life
- b) loss of valuable farmland.
- c) Loss of crops.
- d) Damage properties
- e) Lacking of drinking water.

- **Prevent more flood in future:**

The steps to Prevent more flood in future----

- a) Introduce better flood warning system
- b) Construct building above flood levels.
- c) Tackle climate change.
- d) Restore rivers to their natural courses.
- e) Improve soil condition.
- f) Put up more flood barriers.

- **The duties of the Government during flood:**

- a) Developing and implementing an emergency program.
- b) Regulatory arrangements that protect life, property and the environment.
- c) Provide national support for disaster relief and community recovery.
- d) Providing local disaster warnings.
- e) Increasing public education and awareness.

- **The duties of citizens during flood:**

- a) To help poor people by giving them money, food.
- b) Providing free medical treatment, medicine.
- c) To give them shelter if they need.
- d) Fundraising.

A. One Sentence Question.

1. Write a natural cause of river erosion. (2018)
2. What is the main cause of river erosion? [2017]
3. What happens because of river erosion? [2016]

B. Creative Question.

1. What is river erosion? Why is the natural flow of river threatened? Write 4 manmade cause of river erosion. (2018)
2. What is flood? Why does flood occur? Write 3 bad effect of flood. [2017]
3. Which areas of Bangladesh are prone to river bank erosion, and why? [2016]

PS: Follow the questions from question bank and find the answers from the notes. Here is also include the PEC questions. Please see the answers in the work sheet-2.

Thank You

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Topic-2, Day:2