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**Class : Five**

**Subject : BGS**

**Topic : Climate & disaster**

## **Chapter 6**

### **Climate and Disaster**

#### **Weather**

Weather is average temperature, rainfall, snow or wind at a short period of time over a particular place. Example: The average temperature of Dhaka city is today 30 degree C.

#### **Climate**

Climate is average of weather in a place over many years like 30-40 years.

#### **Climate change**

Climate change occurs when changes the earth's climate system for various reasons. Climate change may be due to natural processes such as sun's radiation, internal variability in the climate system. For example it is mostly through human activity.

#### **Reasons of climate change**

The main reason for this climate change would be the excessive human interference in nature like floods, rising sea level, extreme high temperature, forest fires etc.

#### **The impacts of Climate change in Bangladesh:**

1. Increased average temperature
2. More tornadoes
3. Drought
4. Floods
5. Ground water resources will be very severe.
6. Trees and animals are destroyed.

#### **Reduce of climate change:**

1. Many trees have to be planted

2. Stop cutting down trees
3. Stop burning of fossils fuel for electricity, transport etc.
4. Use less water.

## **Topic 2 : Riverbank erosion**

### **Erosion**

Erosion is the destruction and removal of soil or rock in a specific area by rivers, the sea or the weather.

### **Riverbank Erosion**

Riverbank erosion is one of the most unpredictable and critical types of disasters. It is influenced by heavy rainfall, soil structure and floods. Riverbank erosion leads to millions of people affected as it causes damages and loss of crops, housing structures and farmland.

### **Reason of the Riverbank Erosion**

The riverbank erosion may be both natural cause and man-made.

#### **Natural cause**

1. The main natural cause of erosion is floods.
2. Extreme rainfall is also an important cause of riverbank erosion.
3. Strong current of the river.

#### **Man-made cause**

1. Extracting sand from riverbeds
2. Unplanned river excavation
3. Deforestation (Cutting down trees near river banks and makes a forest non-forest)

### **The effect of Riverbank Erosion**

1. Displacement of people from one place to another place
2. Risk of poverty
3. Increase landless labor
4. Affect in the transport system
5. Losses crops
6. Agricultural demotion

## **Reducing Riverbank Erosion**

1. Stop cutting down trees
2. Planting trees such as willows on the river banks can help
3. Creating public awareness

## **Flood**

Flood is an overflow of water on normally dry ground. Floods are the most common natural disaster in Bangladesh.

# **Topic 3 : Drought**

## **Drought**

A drought is a period of time when an area or region has little or no rain. We have a drought in this area most summer. For example: Especially in the north- west (Dinajpur, Rangpur, Rajshahi district) where there is less rain in summer and fewer river. Southwestern part also facing drought impacts.

## **Causes of Drought**

The drought may be both human cause and natural cause.

### **Human causes of drought**

1. Cutting down trees
2. Poor cropping methods
3. Overpopulation
4. Over-cultivation
5. Improper soil conservation technique to create the drought
6. Too much building covers the ground with concrete so that it does not absorb water.

### **Natural causes of drought**

1. Lack of a precipitation
2. High temperature, strong wind
3. Low pressure storm system
4. Land and water temperature cause drought

## **The effects of drought**

There are many types of effects of drought are given below-

1. Rivers, lakes and canals dry up.
2. Fodder for cattle becomes scarce
3. There is no rain water to drink

## **Topic 4: Earthquakes**

### **Earthquakes**

Earthquakes are usually happen when rock underground suddenly breaks along a fault.

### **Endangered area of Bangladesh**

Bangladesh is at risk of earthquakes because of its geological position. North-east zone is the most risk ( kurigram, Sunamgonj, Sylhet ,hobigonj etc).

#### **✓ How many types of earthquake are there?**

There are 4 types of earthquakes-

- Tectonic
- Volcanic
- Collapse
- Explosion

### **Causes an earthquake**

Earthquakes are caused due to sudden lateral or vertical movements in the crust of the earth.

### **The effects of earthquakes**

We all know that the effects of earthquake are terrible. Several buildings collapsed, hospital, school and whole city destroyed. Lots of people gets injured and killed. Various people lose their shelter. Some environmental effects occur due to earthquake are surface faulting, tsunamis etc.

## Questions

### One Sentence Answer

1. What is weather?
2. What is climate?
3. What is climate change?
4. What do you mean by Global warming?
5. What will be the consequence of climate changes in 2050?
6. When We(Bangladesh) faced the disaster name 'Sid'r "?
7. What is Riverbank erosion?
8. What do you mean by floods?
9. What is drought?
10. Do you know which areas of Bangladesh faces the drought?
11. What is an earthquake?
12. Did you have any experience of earthquake and when?

### Short questions

1. Describe shortly the main difference between weather & climate?
2. Give some examples of natural Disaster?
3. Do you know the name of our Ministry of Disaster management & Relief? Please mention the name?
4. When we are facing heavy rainfall and when less rainfall?
5. Give me some name of major rivers of Bangladesh?
6. How the 'Cutting down trees' is responsible for creating drought?
7. Which zone of Bangladesh is the most risky for earthquake?
8. Did you know the name of Tsunami? When did it hit and where?

### Broad Questions.

1. Describe the causes of climate changes and impacts in Bangladesh?
2. How could we stop climate changes ?Discuss briefly
3. What are the causes of River bank Erosion? Discuss briefly
4. Identify the primary & secondary effects of Drought?
5. What measures we should take for earthquake? Explain.

