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Chapter-12 (Climate Change) (Lecture-2)

3.Climate Change

Natural Hazards:

A *natural hazard* is a natural phenomenon that might have a negative effect on humans or the environment.

Frequency:

The rate at which something occurs over a particular period of time.

Tropical Cyclone:

A tropical cyclone is a rapidly rotating storm system characterized by a low-pressure center, a closed low-level atmospheric circulation, strong winds, and a spiral arrangement of thunderstorms that produce heavy rain.

Erratic:

Erratic means not even or regular in pattern or movement; unpredictable.

Risk of natural disaster due to climate change:

- Increasing frequency and severity of tropical cyclone and storm surge.
- Occurring heavier and more erratic rainfall causing flood.
- Occurring lower and more erratic rainfall causing drought.
- Sea level rise and salt water intrusion in the river.

Name of two strategies of confronting the risk of climate change:

A. Climate Change mitigation:

The action that will limit the magnitude and rate of long-term climate change.

Ways of climate change mitigation:

- Decreasing the use of fossil fuel such as coal, oil, and natural gas.
- Increasing the use of renewable energy such as solar and wind energy can reduce the emission of carbon dioxide.
- Reduce carbon dioxide in the atmosphere by planting trees.
- We can reduce energy consumption in our daily life.

B.Climate Change Adaptation:

The measure to survive in the changing climate is called climate change adaptation.

The followings are examples of adaptation activities:

- Developing the infrastructure such as houses, schools and factories
- Constructing the flood and cyclone shelters.
- Creating costal afforestation.
- Innovating salt tolerant crops.

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- e. Changing our life style.
- f. Disseminating knowledge of climate change.

Exercise related with this topic

[Students will solve the answer of the following questions.]

1. Write 4 sentences on how we can mitigate climate change?
2. Write down the 5 ways of climate change adaptation.
3. Write two strategies of comforting the risk of climate change.
4. Write 5 ways to prevent climate change.