

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Pakistan School
Kingdom of Bahrain

Marine Resources

Pop'n of Pakistan

CLASS: 10TH

Rules of the Class

- ❖ Be on **time**
- ❖ Enter the class with your **name** and **CPR number**
- ❖ **Respect** all participants
- ❖ Do **not** create any disturbance
- ❖ Be ready to make screenshots of slides.
- ❖ **Raise your hands** for questions (the teacher will respond when the time is suitable)
- ❖ Pay **attention** to the teacher
- ❖ Follow the **time table**

Lesson Objectives

At the end of this lesson, students should be able to identify and explain each of the following:

- ❖ **Marine resources**
- ❖ **Population of Pakistan**
- ❖ **Urbanization**
- ❖ **Ecosystem**
- ❖ **Deforestation**





Marine Resources

Marine Resources

- ❖ Pakistan has a vast coastal area about 700 km long
- ❖ The Arabian sea is considered a warm water channel
- ❖ It links up Pakistan through marine trade routes with international sea parts
- ❖ The sea is a valuable source of food, minerals, ornamental items and medicinal plants



Arabian Sea

Source of Food (fish)

- ❖ The sea along coastal areas is a great source of food
- ❖ About 400 varieties including tuna, sardine, shrimp and salmon are found in it
- ❖ Fish and fish-products like cod-liver oil are used locally and a part is exported to earn foreign exchange
- ❖ To improve fisheries activities the government is taking a number of measures including establishment of training centre, hatchery complex.
- ❖ By doing so, the measures upgrade socio-economic conditions of fishers.

Tuna



Sardine



Shrimp



Salmon

Sea minerals

- ❖ Sea water is a great source of minerals
- ❖ It consists of different salts like magnesium sulphate, potassium sulphate, sodium sulphate etc
- ❖ These salts can be recovered from seawater (e.g. by evaporation)
- ❖ Magnesium metal is a very important metal obtained from seawater
- ❖ Bromine and iodine are also obtained for seawater



Bromine (liquid)



Iodine (solid)

Medicinal Products

- ❖ Plants and animals found in sea are used as medicines from a long time.
- ❖ The very dangerous diseases like cancer, AIDS are being cured by medicines derived from marine life.

Ornamental Items

- ❖ Sea is also a source of ornamental items
- ❖ Different types of corals, animals and plants are used for ornaments
- ❖ Corals are famous for their multi-coloration
- ❖ Multi-colored plants are used for interior decoration
- ❖ Skin of several sea-animals are used for making purses, coats, shawls, garments and other ornamental products



Coral Reef

Urbanization



Urbanization

- ❖ The migration of rural people to cities is called urbanization.
- ❖ In Pakistan, this is increasing day by day.
- ❖ Cities are expanding without any planning.
- ❖ This has increased the population pressure in big cities.

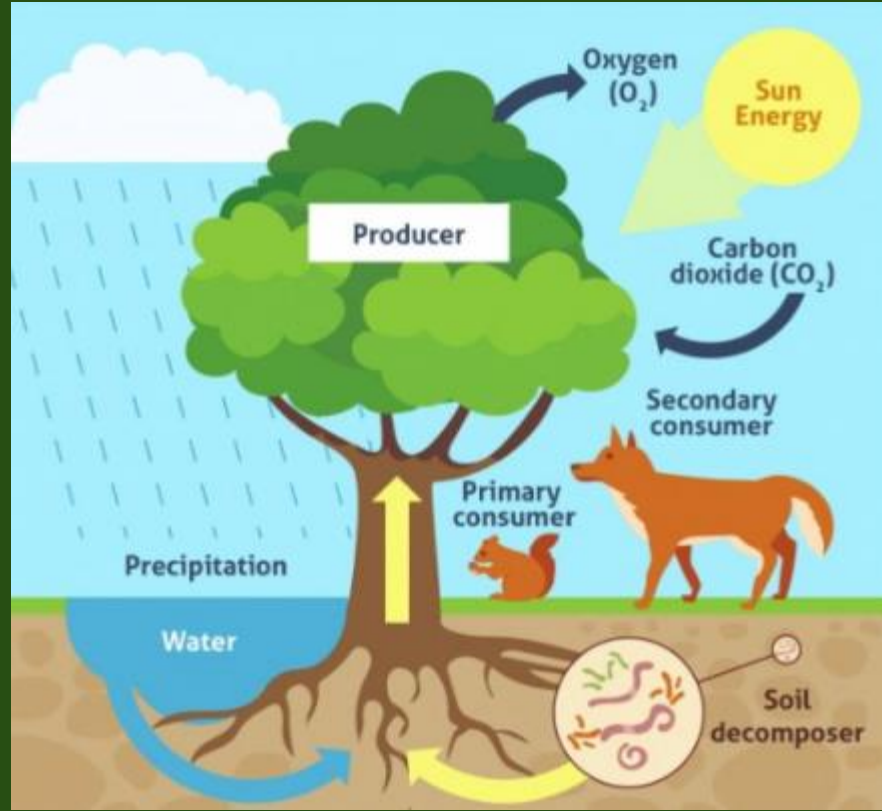
Reasons of Migration

- ❖ Reduction in the **area of fertile land**
- ❖ Reduction in the **productivity** of the land
- ❖ Non-availability of **jobs**
- ❖ Non-availability of proper **health facilities**
- ❖ Non-availability of proper **educational and vocational facilities**
- ❖ Attraction of amenities of **city life**
- ❖ Freedom from the mastery attitude of **feudal lords** in rural areas.
- ❖ Prosperity of rural population by earning **foreign exchange** from abroad.

Effects and Problems

- ❖ Urbanization has resulted in sudden increase of population of cities from 9.8% to 31.5% in almost a century.
- ❖ It has created a lot of social and economical problems.

Ecosystem



Ecosystem - Role of Plants

- ❖ Ecosystem is a community of organisms living in a habitat. In ecosystem, plants, animals and human beings **live together**.
- ❖ They are **dependent** upon each other for their survival.
- ❖ Plants produce oxygen, foods and medicine and compounds which are **vital** for animals.
- ❖ They provide **shelter** and hide to animals against predators.
- ❖ Dead plants are great source for **fossil fuels**.

Ecosystem - Role of Animals

- ❖ Animals give out CO_2 , which is used by plants for [photosynthesis](#).
- ❖ Photosynthesis is a process carried out by green plants to synthesize foods and fruits.
- ❖ Animal excreta are used as [manure](#) for plants.
- ❖ Dead animals [decompose](#) to provide basic nutrients in soil.

Types of Ecosystem



Tropical Rainforest



Temperate Forest



Coniferous Forest (Taiga)



Tropical Grassland (Savannah)



Temperate Grassland



Mediterranean



Desert



Tundra



Mountain

Definitions

- ❖ **Ecosystem** is a community of organisms living in a habitat
- ❖ **Habitat** is a place where plants and animals live.
- ❖ **Community** is a group of living organisms sharing a habitat.
- ❖ **Ecology** deals with relationship of living organisms and their surroundings.

Deforestation



Effects of Deforestation

- ❖ It has proven a great **national loss**.
- ❖ It has badly affected the climate due to which annual **rainfall has decreased**.
- ❖ Deforestation and rising population are becoming a cause of **global warming**.
- ❖ Plants are main source of **soil fertility**. Deforestation has decreased the soil fertility.
- ❖ Forests **control the flood and storm** by decreasing the speed of water and air.
- ❖ Forests control **land erosion**.

Examples of Deforestation



A stylized illustration in shades of green and white. In the center, two figures are shown from the waist up, facing each other with their arms raised in a celebratory or collaborative gesture. Behind them are large, interlocking gears. To the left, a potted plant with long, pointed leaves stands on a small base. The background is filled with various abstract shapes, including stars, dots, and wavy lines, creating a dynamic and creative atmosphere.

ACTIVITIES

Fill In The Blanks

1. _____ means reduction in the forest areas.
2. Pakistan has 5% land covered with _____.
3. Deforestation has badly affected the _____.
4. The _____ of people from rural areas to cities is called _____.
5. Reduction in the area of _____ is a cause of urbanization.

True / False

1. Deforestation is a cause of global warming.

T/F

2. Land covered with forest in Pakistan is not 5%.

T/F

3. The rising population causes the shortage of accomodation.

T/F

4. Plants are source of soil fertility.

T/F

5. Forests do not decrease the speed of flood water. **T/F**

FINALLY...



Plenary

Questions:

Q1. Define Ecosystem.

Q2. What is deforestation?

Q3. Define Urbanization.

Homework

Questions:

Q1. What is ecosystem?

Q2. Explain the effects of deforestation on environment.

Q3. Explain the effects of urbanization.

Four white daisy flowers with yellow centers are arranged on a green background. One large flower is on the left, and three smaller flowers are positioned around it: one above and to the right, and two below.

As-salamu Alaikum

MAY ALLAH SWT BLESS YOU ALL