Fill in the blanks.
(a) A place where animals are protected in their natural habitat is called _______.
(b) Species found only in a particular area is known as _______.
(c) Migratory birds fly to far away places because of _______ changes.

Solution
Wildlife sanctuaries (a) are the natural habitats of animals where poaching or capturing of animals is strictly prohibited and animals are conserved in their natural environment. Species of plants and animals, which are restricted to particular area and are not found anywhere else, are known as endemic species (b). Birds which move from one part of country/world to that of other are known as migratory birds. They do so for food, shelter for reproduction and to escape the changed climatic conditions (c) at their native place.

Differentiate between the following.
(a) Wildlife sanctuary and biosphere reserve
(b) Zoo and wildlife sanctuary
(c) Endangered and extinct species
(d) Flora and fauna

Solution
a) Wildlife sanctuaries are the natural habitats of animals where poaching or capturing of animals is strictly prohibited. Harvesting and other man activities are allowed as long as they don’t interfere with well being of animals. Biosphere reserve serves to conserve the biodiversity i.e., plants, animals, microbes as well as culture of that place. A biosphere reserve consists of many protected areas such as national parks, sanctuaries and lakes etc.
b) Wildlife sanctuaries are the natural habitats of animals where poaching or capturing of animals is strictly prohibited. Harvesting and other man activities are allowed as long as they don’t interfere with well being of animals. Zoos are the artificial habitats of animals wherein animals are conserved for public view. Wildlife sanctuaries cover a large geographical area as compared to that of zoo.
c) Species with number diminished to the level that put them at the verge of extinctions are categorized as endangered species. Protection and conservation of these species are required to ensure their survival. Examples: tiger, wild buffaloes. Extinct species are the one which are no longer present on the earth e.g., Dodo
d) All plant species of an area constitutes its flora while its entire animal species makes its fauna.

Discuss the effects of deforestation on the following.
(a) Wild animals
(b) Environment
(c) Villages (rural areas)
(d) Cities (urban areas)
(e) Earth
(f) The next generation

Solution
a) Deforestation leads to the destruction of natural habitats of wild animals and leaves them with no place to live and reproduce. This makes animal species endangered and even causes their extinction.

b) As we know that plants absorb carbon dioxide and release oxygen into the atmosphere during photosynthesis. Deforestation has increased the carbon dioxide level of atmosphere with resultant global warming. Green plants constitute the first trophic level of all food chains. They are also responsible for precipitation. Deforestation leads to the disturbed food chain and reduced amount of rainfall.

c) Plant roots hold the soil particles and prevent soil erosion. Deforestation led to soil erosion and wash off of soil in nearby water bodies has caused the flood in many rural areas thereby disturbing the agricultural practices. Likewise, villagers depend on food, wood, fuel, etc. Deforestation has reduced these resources and shelter less wild animal have become a serious threat for nearby villagers.

d) Since, urban population depends on rural population for food, timber and many other resources; deforestation has disturbed this supply chain. The increased natural calamities like the flood as well as global warming have created serious health and other related threats to them.

e) The part of Earth that support life is referred to as biosphere. Adverse effects of deforestation on plants, animals and human have disturbed the proper functioning of the whole biosphere. It includes reduced soil fertility, increased barren land area, global warming, increased intensity and frequency of many natural calamities etc.

f) The extinction of many useful and ornamental plant and animal species has made our future generation deprived of their benefits. Scarce and even diminished nonrenewal resources, global warming, increased earth temperature, pollution level and resultant increased serious health problems are some of the major concerns of future generation caused by deforestation.

---

**#462742**

What will happen if,
(a) we go on cutting trees
(b) the habitat of an animal is disturbed
(c) the top layer of soil is exposed

**Solution**

(a) If we go cut on trees- Tress provide shelter to animals and birds. If trees are cut, animals and birds will lose their shelters. Trees are sources of fruits, shed, wood. There will be a scarcity of such resources if trees are cut. Global warming will occur. Ground water reserve also will be reduced.

(b) If the habitat of an animal is disturbed, survival of animals is endangered. It will ultimately lead to the extinction of it.

(c) Removal of the top layer of the soil exposes the lower, hard and rocky layers. The top layer is more fertile and contains humus. If the top layers are affected by any means, the fertility of the soil is lost and this will eventually lead to desertification.

---

**#462746**

Answer in brief.
(a) Why should we conserve biodiversity?
(b) Protected forests are also not completely safe for wild animals. Why?
(c) Some tribes depend on the jungle. How?
(d) What are the causes and consequences of deforestation?
(e) What is Red Data Book?
(f) What do you understand by the term migration?

**Solution**

(a) Biodiversity is the variety of all life forms on Earth and it includes different plants, animals and micro-organisms and the ecosystems of which they are a part. We should conserve the biodiversity because it is very important for all living organisms and also for environment. We should conserve it from being extinct.

(b) Protected forests are not completely safe for animals as poachers have the access in these areas who kills animals. There is a need to make strict rules against poaching or trespassing.

(c) Some tribes are still depends on jungle for their food, fuel, wood, shelter etc. They live in forests. Forests are the source of livelihood for them.

(d) The main cause of deforestation is urbanization and industrialization. The consequences will results in soil erosion, global warming and depletion of ground water which cause ultimate danger to human being.

(e) Red book data is the source book which keeps a record of all endangered species.

(f) Migration is movement of species from their own habitat to other habitats for a particular time period for a specific purpose like breeding.

---

**#462748**

In order to meet the ever-increasing demand in factories and for shelter, trees are being continually cut. Is it justified to cut trees for such projects? Discuss and prepare a brief report.

**Solution**
It is not justified to cut the trees at the present rate for such projects. Trees are most important part of the ecosystem. We must reduce our dependency on forest resources to meet their increasing demand in factories and for shelter. But being the most intelligent species of the Earth, it is our responsibility to protect the Earth. This can be done by proper planning for afforestation so that removed trees can be replaced with new trees. We have to start reforestation in larger scale taking it as a top priority.

**Solution**
We can take various actions to contribute to the maintenance of green wealth in our locality. Planting new trees is one of the most important and must-do action. We can convince other people to plant new trees. We can also take out rallies to create awareness among people. We can coordinate with local authorities for proper help.

**#462752**

Explain how deforestation leads to reduced rainfall.

**Solution**
Plants and water bodies are the sources of most of the moisture and water vapour that constitutes the clouds that bring rain (in continental regions). Forests act as large transpiration zones and contribute greatly to the atmospheric moisture. In their absence, the water of the soil just seeps down or flows away and thus they cannot contribute to rain.

**#462753**

Find out about national parks in your state. Identify and show their location on the outline map of India.

**Solution**
List of National Parks found in some of the states of India are as follows:

![Map of National Parks in India](https://community.toppr.com/content/questions/print?show_answer=1&show_solution=1&page=1&jid=462741%2C+462755%2C+462746%2C+462738%2C+462752)

**#462755**

Why should paper be saved? Prepare a list of ways by which you can save paper.

**Solution**
The paper is made from wood pulp which means trees need to be cut for making paper. By saving paper, we can, in fact, save the forest. Use old newspapers and notebooks for making rough work while doing your homework. Old envelopes can also be used for doing the rough work. The paper should be recycled to minimize the need for cutting trees. Schools should encourage online submission of reports and assignments so that paper can be saved. Don’t take a printout unless it is absolutely necessary.