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## CH: 7 Interdependence in Living Beings - Plants and animals.

### I Technical terms:

1. **Interdependence:**
The relationship where plants and animals depend on each other for food, oxygen, shelter and survival.

2. **Poaching:**
Poaching is the illegal hunting, capturing or killing of wild animals.

### II Rewrite the false statement correctly.

1. Herbivores have sharp teeth and claws to hunt and tear meat.

Ans Carnivores have sharp teeth and claws to hunt and tear meat.

2. Droughts cause huge sea waves that flood coastal areas.

Ans Tsunamis cause huge sea waves that flood coastal areas.

### III Assertion - Reason Questions.

In the question given below, there are two statements marked as Assertion (A) and Reason (R). Read the statements carefully and choose the correct option.

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(a) Both A and R are correct
(b) Both A and R are incorrect.
(c) A is correct and R is incorrect.
(d) A is incorrect and R is correct.

1. Assertion (A): Scavengers help keep the environment clean.
Reason (R): Scavengers prepare their own food through photosynthesis.

Ans: option (c)
A is correct and R is incorrect.

## IV Short answers:

1. Explain the role of decomposers in nature

Ans i) Decomposers break down dead plants and animals into simple nutrients that mix with the soil.
ii) These nutrients help plants grow and maintain soil fertility

2. Differentiate between Producers and consumers

Ans.

| Producers | Consumers |
|---|---|
| i) They make their own food. | i) They cannot make their own food. |
| ii) They use photosynthesis to prepare food. | ii) They depend on other organisms for food. |
| iii) Ex: Grass, Mango tree | ii) Ex: cow, lion |

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3. Describe a food chain and explain the movement of energy.

Ans A food chain shows how food and energy pass from one organism to another.

Example:

Grass → Grasshopper → Frog → Snake → Eagle.

* Grass prepares food using Sunlight
* The grasshopper eats the grass.
* The frog eats the grasshopper.
* The Snake eats the frog.
* The eagle eats the Snake.

This shows how energy moves step by step from plants to different animals.

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V Long Answer

1. Explain five human-made causes of imbalance in nature.

Ans i) Deforestation:

Cutting down trees destroys animal homes and reduces rainfall.

ii) Land clearing:

Removing forests for farming or building causes loss of greenery and habitats.

iii) Pollution:

Dirty air, water and soil harm plants, animals and humans.

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iv) Hunting and poaching:
Killing animals for meat, fur or trade reduces animal population

v) Forest fires:
Carelessness or burning for land clearing causes loss of forests and wildlife.

VI HOTS

1. Imagine a world without plants. What problems would animals and human face?

Ans Without plants, animals and humans would face lack of food, oxygen and shelter, making survival impossible.

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