

SCIENCE • CLASS 10

CHAPTER 13

Our Environment

NCERT SOLUTIONS



BIODEGRADABLE ITEMS

Exercise 1 — Which groups contain only biodegradable items?

- (a) Grass, flowers and leather
- (b) Grass, wood and plastic
- (c) Fruit peels, cake and lime juice
- (d) Cake, wood and grass

Answer: (a), (c) and (d).

Biodegradable materials can be broken down by biological processes, including the action of microorganisms.

Group (b) contains ordinary plastic, which does not readily undergo biological decomposition. The other groups contain biodegradable materials in the textbook context.

IDENTIFYING A FOOD CHAIN

Exercise 2 — Which sequence forms a food chain?

- (a) Grass, wheat and mango
- (b) Grass, goat and human
- (c) Goat, cow and elephant
- (d) Grass, fish and goat

Answer: (b) Grass → goat → human.



Grass is the producer. A goat can eat grass, and a human can eat the goat. Each arrow points from food to its consumer.

The other sequences do not show the required feeding relationship between successive members.

ENVIRONMENT-FRIENDLY PRACTICES

Exercise 3 — Which are environment-friendly practices?

- (a) Carrying cloth bags for purchases while shopping
- (b) Switching off unnecessary lights and fans
- (c) Walking to school instead of a scooter drop-off
- (d) All of the above

Answer: (d) All of the above.

Reusable cloth bags can reduce disposable bag waste. Avoiding unnecessary electricity use saves energy. Walking, where safe and practical, avoids fuel use and vehicle emissions for that trip.

REMOVING A TROPHIC LEVEL

Exercise 4 —

Q: What would happen if all organisms in one trophic level were killed?

Solution:

Energy and food transfer through the food chain would be disrupted.

The next trophic level would lose a food source and could decline. Organisms in the preceding level might increase because fewer are being eaten.

These changes can spread through the food web and disturb the balance of the ecosystem.

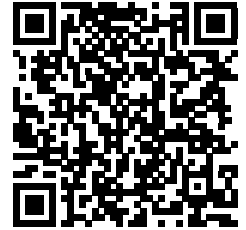


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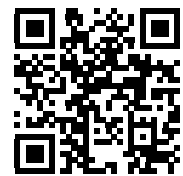


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