

2023 Bi H1 Q20

Section: Sustainability and Interdependence

Topic: Crop Protection

Question Summary

You are asked which features from the list — (1) Storage organs, (2) Vegetative reproduction, (3) Short life cycle — belong to perennial weeds (weeds that survive for many years).

Worked Solution

- Annual weeds complete their life cycle in one season and spread mainly by seeds.
 - They grow rapidly, flower early, and produce many seeds.
 - Their key feature is a short life cycle (feature 3).

 - Perennial weeds, in contrast, survive year after year.
 - They have storage organs (feature 1) such as bulbs, rhizomes, or tubers that allow them to regrow.
 - They also reproduce by vegetative means (feature 2), e.g. runners or root fragments forming new plants.
 - They do not have short life cycles.
- Therefore, the correct features of perennial weeds are 1 and 2 only.

Final Answer

■ Option A — 1 and 2 only

Revision Tips

- Annual weeds:

- Complete life cycle in one season
- Rapid growth, early flowering, seed dispersal
- Example: chickweed, groundsel

- Perennial weeds:

- Live for several years
- Have storage organs and vegetative reproduction
- Harder to control — can regrow after cutting or herbicide

- Key strategy:

- Annual → seeds + short life cycle
- Perennial → storage + vegetative reproduction