

Solutions

Each answer shows the steps, then the **result**.

2.1

- Any two: fire, flood, volcanic eruption, drought, storm

2.2

- Periodic

2.3

- Any one: clears dead material, releases nutrients, triggers germination

3.1 B

- a random disruption

3.2

(a)

- Harmful: kills plants/animals; beneficial: releases nutrients / clears the canopy

(b)

- Some plants need fire to release seeds or clear competitors, and periodic fire recycles nutrients, so those ecosystems are adapted to it

3.3

- Through ecological succession — pioneer species recolonize, and the community rebuilds over time; high biodiversity speeds this recovery