

Solutions

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

2.1

- Any two: water filtration, flood control, nurseries/habitat, carbon storage

2.2

- Any one: clearing for shrimp farms, coastal development, pollution

2.3

- Any one: more flooding, worse water quality, lost fisheries, released carbon

3.1 B

- absorbing storm surge and reducing flooding

3.2

(a)

- Any two: storm/flood protection, nursery habitat, water filtration, carbon storage

(b)

- Without the mangroves' natural barrier, storm surge reaches the coast directly, causing more flooding and damage

3.3

- Wetlands filter pollutants from water; draining one removes that filtration, so more pollutants pass into rivers and groundwater