

# Water Dynamics in Plant Production, 2nd Edition

## Multiple Choice Questions

### Chapter 2 – The Role of Water in Soil

1. Physical weathering can be caused by:
  - (a) heat
  - (b) cold
  - (c) both of the above
  - (d) none of the above
2. Chemical weathering depends on: (There may be more than one correct answer.)
  - (a) application of fertilizer
  - (b) hydration
  - (c) dissolving minerals
  - (d) the action of water chemically changing mineral compounds
  - (e) release of acids from the breakdown of plant and animal tissues
3. Important processes in pedogenesis are: (There may be more than one correct answer.)
  - (a) leaching
  - (b) displacement
  - (c) precipitation
  - (d) glaciation
4. Changes in soil water content influence: (There may be more than one correct answer.)
  - (a) oxygen diffusion
  - (b) heat conduction
  - (c) air-filled pore space
  - (d) soil water potential
5. Water movement through the soil profile can result in: (There may be more than one correct answer.)
  - (a) layers rich in clay
  - (b) formation of hardpans cemented by iron and organic matter
  - (c) accumulation of salt in surface layers
  - (d) formation of layers depleted of clay
  - (e) loss of calcium