Eastern University, Sri Lanka

Second Year First Semester Examination in Science 2003/2004 (November/December 2004) (Proper/Repeat)

BT 201, Developmental Physiology

Answer All Questions

Time: 02 hrs

- Discuss the following statements:
 - (a) "Senescence is a productive phase of plant growth and development".
 - (b) "Turgor movements protect plants from herbivores".
 - (c) "Abscisic-acid is a stress relieving hormone".
- 2. (a) "Dormancy has an important role in plant survival", explain.
 - (b) Briefly explain the factors which causing seed dormancy.
 - (c) Graphically explain the major events which take place during seed germination.
- 3. Explain the following statements:
 - (a) "Quality of light is important for flowering"
 - (b) "Breakdown of lipids takes place in different sites of a cell in a germinating seed"
 - (c) "Aeroponic growth systems have more advanced features than hydroponic growth systems"
- 4. (a) Outline the biogeochemical cycle that utilizes atmospheric nitrogen as a source.
 - (b) List the important organisms and their role/s in the above cycle.
 - (c) Discuss the major biological interactions of the organisms in the above cycle.