

EASTERN UNIVERSITY, SRI LANKA  
EXTERNAL DEGREE PROGRAMME  
SECOND YEAR EXAMINATION IN SCIENCE-1996/97  
(June/July, 2004)(Proper)



EXTBT 202, Developmental Physiology

Answer any Four questions

Time: 2 hrs

- 1) a) Classify the types of movements in plant?  
b) Describe how these movements are important for the plant survival.  
c) Briefly describe the role of water in plant movements.
- 2) Give a concise account on "Major roles of phytohormones in plants"
- 3) Write short notes on the following:
  - a) Aeroponics.
  - b) Phytochrome.
  - c) Biological Nitrogen fixation.
- 4) a) List the methods of germination of plants.  
b) Briefly describe the biochemical changes take place during the time of germination of seeds.
- 5) a) Define "essential elements".  
b) List the essential elements in plant nutrients.  
c) Discuss the main role of **any three** essential elements in plant function and indicate their deficiency symptoms.
- 6) Briefly describe on the following:
  - a) Seed coat dormancy.
  - b) Nitrogenase in nitrogen fixation.
  - c) Avoidance of plants under water stress.