

Eastern University, Sri Lanka  
First Year Second Semester Examination in Science 2013 / 2014

BT-101 / Plant Diversity



Answer all questions.  
Time: 02 hours

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1. Describe **FOUR** different types of life cycle occurring in the division chlorophyta. Illustrate your answer with fully labeled diagrams and suitable examples.
  
2. a). With the help of a fully labeled diagram describe the habit of *Isoetes*.  
b). Compare the gametophytes of *Lycopodium* and *Psilotum*.
  
3. a). What is a strobilus?  
b). Compare the strobilus of *Equisetum* with the female cone of *Pinus*, with fully labeled diagrams.
  
4. Describe the features of evolutionary importance exhibited in the following:
  - a). Gametophytes of *Marchantia*.
  - b). Sporophyte of *Anthoceros*.
  - c). Gametophytes of *Pogonatum*.