

Eastern University, Sri Lanka
First Year Examination in Science 2010 / 2011 (Repeat)
EXTBT-101 / Plant Diversity



Answer all questions.
Time: 02 hours

1. Describe **FOUR** different types of life cycles occurring in the division chlorophyta. Illustrate your answer with fully labeled diagrams and suitable examples.

2. a). With the help of fully labeled diagram describe the habit of *Equisetum*.
b). Compare the gametophytes of *Equisetum* and *Psilotum*.

3. a). What is sori?
b). Compare the sori of *Dictyota* with *Cycas*, with fully labeled diagrams.

4. Describe the features of evolutionary importance exhibited in the following:
 - a). Gametophytes of *Pogonatum*.
 - b). Sporophyte of *Anthoceros*.
 - c). Gametophytes of *Marchantia*.