

*

Eastern University, Sri Lanka
First Year First Semester Examination in Science (Proper) – 2011 / 2012
BT-101 / Plant Diversity (January / February-2014)

Answer All Questions.
Time: 02 hours.



1. Distinguish between;
 - a). Archegonium and Oogonium.
 - b). Hapteron and Homogonium.
 - c). Conceptacle and Cystocarp.
 - d). Spermatangium and Synangium.

2. Explain the following statements with fully labelled diagrams;
 - a). *Marchantia* sporophyte is a dependant generation.
 - b). Water is essential for the dissemination of spores in *Anthoceros*.
 - c). Function of pseudopodium is important in *Sphagnum*.

3.
 - a). What is a sporophyll?
 - b). Compare the strobilus of *Equisetum* with that of *Selaginella*.
 - c). Describe the gametophyte of *Psilotum* with suitable labelled diagram.

4. Write brief notes with fully labelled diagrams on the followings;
 - a). Fully matured female cone of *Pinus*.
 - b). Gymnosperms do not have true endosperm.
 - c). Male cone of *Cycas*.
 - d). Corolloid root of *Cycas*.