

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*.