

Eastern University, Sri Lanka
First Year First Semester Examination in Science - 2009/2010
External Degree Programme -
EXTBT-101 / Plant Diversity - (May - June 2012)



Answer all questions

Time: 2 hours

1. Distinguish between:

- a). Hold fast and Hapteron.
- b). Synangium and Antheridium.
- c). Zygote and Gamete.
- d). Sporophyll and Sporangiphore.

2. a). Describe the life-cycle of *Fucus*.
b). What type of life-cycle is this?

3. Explain the following statements:

- a). *Psilotum* is one of the simplest and most primitive among land plants.
- b). There is no true endosperm in *Pinus*.

4. a). What is gametophyte?
b). Describe the important features of the gametophyte of *Pogonatum* with reference to its habitat.