



EASTERN UNIVERSITY, SRI LANKA
FACULTY OF SCIENCE
FIRST YEAR FIRST SEMESTER EXAMINATION IN SCIENCE

EXTBT-101 / Plant Diversity (Vascular & Non-vascular Plants)
(Proper / Repeat) (May/June 2010)

External Degree Programme

Duration: 2 hrs

Answer all questions

1. Distinguish between;
 - a. Nannandrium & Carpogonium.
 - b. Coenobium & Hormogonium.
 - c. Antheridium & Spermatorium.
 - d. Sporocarp & Cystocarp.

2.
 - a. Describe the gametophyte of *Sphagnum*? and how it differs from *Ulva*?
 - b. Compare the gametophyte of *Psilotum* with the gametophyte of *Ectocarpus*?

3. Explain the following statements with suitable labeled diagrams;
 - a. There are some similarities in the life cycles of *Polysiphonia* and Seeded habit.
 - b. Polyembryony is present in *Pinus*.

4. Compare the followings with suitable labeled diagrams;
 - a. Development of male gametophyte of *Pinus* and *Cycas*?
 - b. Underground stem of *Isoetes* and *Equisetum*?