

Eastern University, Sri Lanka
First Year Examination in Science / 2005-2006 (Repeat) (Aug/Sep.2007)
BT 101 – Plant Diversity

Answer all questions

Time: 2hrs

1. Distinguish between
 - a). Hormogonia and Oogonia
 - b). Plankton and Waterbloom
 - c). Archegonium and Carpogonium
 - d). Trichome and trichogyne(100 points)

2. 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*.
 - c). Bryophytes are amphibious plants.(100 points)

3.
 - a). What is a sporophyll?
 - b). Compare the megasporophyll of *Selaginella* with that of *Cycas*.
 - c). Compare the microsporophyll of *Isoetes* with that of *Cycas*.(100 points)

4. Describe the following with suitable labeled diagram.
 - a). Male gametophyte of *Pinus*.
 - b). Corolloid root of *Cycas*.
 - c). Female cone of *Pinus*.
 - d). Female gametophyte of *Cycas*.(100 points)