Eastern University, Sri Lanka. First Year Second Semester Examination in Science – 2015 / 2016 (May/June – 2018) BT 101 – Plant Diversity

(Report)

Time: TWO hours
Answer ALL questions

- 1. a). "Land plants" arose from "aquatic algal ancestor" Discuss this statement.
 - b). Describe <u>FOUR</u> different types of life cycle occurring in the chlorophyta. Illustrate your answer with fully labeled diagrams and suitable examples.
- 2. Discuss the features of evolutionary importance exhibited in the following.
 - a). gametophyte of Marchantia
 - b). sporophyte of Anthoceros
 - c). gametophyte of Pogonatum
- 3. a). What is a strobilus?
 - b). Compare the strobilus of *Equisetum* with the male strobilus of *Cycas*, with fully labeled diagram.
- 4. Describe the following with suitable labeled diagram.
 - a). male gametophyte of *Pinus*
 - b). female gametophyte of Cycas
 - c). gametophyte of Psilotum