

Eastern University, Sri Lanka
 First Year Second Semester Examination in Science (Proper) – 2012 / 2013
 August / September – 2015

BT-101 / Plant Diversity



Answer all questions

Time: 02 hrs

1. Distinguish between;

- Sori and Spermatia.
- Hapteron and Haplobiontic.
- Capitulum and Protocorm.
- Pseudopodium and Hormogonium.

(24 marks)

2. Describe the followings with suitable labeled diagram.

- Parthenogenesis in *Botrydium*.
- Life cycle of *Derbesia*.
- Spore dispersal in *Pogonatum*.

(24 marks)

3. What is gametophyte?

- Compare the gametophyte of *Puzzle-grass* with that of *Whisk-fern*.
- How the gametophyte of *Club-moss* differs from the gametophytes of (a).
- Explain the gametophytes of *Spike-moss*.

(28 marks)

4. Explain the followings with suitable labeled diagrams.

- Alternation of generation in *Marchantia*.
- Reproduction methods in *Vaucheria*.
- Diploxylic condition in *Cycas*.
- Polyembryony in *Pinus*.

(24 marks)