

Eastern University, Sri Lanka

Second Year First Semester Examination in Science 2016/2017 (Oct/Nov 2018)

BT 201– Plant structure and systematics

Answer all question

Time – 02 Hours

1. (a) The main parts of growing plants are roots, stems and leaves. Draw a diagram and explain the arrangement of tissues in the stem of a dicotyledonous plant  
(b) Explain the functions of the different tissues of a leaf?  
(30minutes, 50 marks)
2. Write short notes on the following
  - (a) Seed dispersal mechanisms
  - (b) Annual Rings
  - (c) Natural classification(30 minutes, 50 marks)
3. Briefly contrast the following pairs of terms
  - (a) Convergence and Divergence in evolution of plants
  - (b) Apical meristem and Intercalary meristem.
  - (c) Good characters and Bad characters in taxonomy of plants(30minutes, 50 marks)
4. (a) Briefly describe the functions of Herbarium?  
(b) List the differences between scientific name and vernacular name  
(c) Contribution of Bentham and Hooker in plant systematics  
(30 minutes, 50 marks)