



**RAJARATA UNIVERSITY OF SRI LANKA  
FACULTY OF APPLIED SCIENCES**

**B.Sc. (General) Degree in Applied Sciences  
First Year – Semester I Examination – May/June 2016**

**BOT 1201 – PLANT DIVERSITY**

**Time: Two (02) hours**

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**Answer any four (04) questions only.**

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1. a) Compare briefly the cell wall material, photosynthetic pigments, stored food and colour of Chlorophyta, Phaeophyta, Rhodophyta and Bacillariophyta. **(48 marks)**  
 b) State two economic importances of algae, giving an example for each. **(16 marks)**  
 c) Illustrate the habit of any five macroscopic algae, using complete diagrams only. **(36 marks)**
  
2. a) "Sporophyte of *Anthoceros* sp. is adapted to terrestrial life."  
 Justify the above statement. **(80 marks)**  
 b) State two economic importances of bryophytes, giving an example for each. **(20 marks)**
  
3. Differentiate the following pairs.  
 a) Fertile region of *Drycanospteris* sp. and that of *Asplenium* sp. **(50 marks)**  
 b) Strobilus of *Equisetum* sp. and male strobilus of *Gingko* sp. **(50 marks)**
  
4. a) "Gymnosperms are considered as ancestors of angiosperms".  
 Support this statement, giving examples and illustrations. **(70 marks)**  
 b) Write a short essay on the importance of fungi to man. **(30 marks)**
  
5. a) Slime molds are considered as fungi-like organisms. Compare and contrast the features of slime molds with typical characteristics of true fungi. **(30 marks)**  
 b) Describe the mode of nutrition of fungi. Mention the ecological function of this mode of nutrition. **(30 marks)**  
 c) Give a brief account on different types of septa found in true fungi. **(40 marks)**

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