

**Uva Wellassa University of Sri Lanka**  
**Faculty of Science and Technology**  
**Department of Science and Technology**  
**100 level 2<sup>nd</sup> semester Examination – Dec./Jan. 2016/17**  
**SCT 111-2 Bioprospecting**



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**Instructions to candidates**

**Duration: Two (02) hours**

**Number of questions: Four (04) essay questions**

**Answer all questions**

**Mark allocation: 100**

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1. Write short notes on the following
  - a. Lichen
  - b. Embryonic development in animals
  - c. heterocysts
  - d. Sporophyte
  - e. bacteriophage

(25 mark)
  
2.
  - a. Describe the structural difference between a gram (+) and gram (-) bacterium. How does this help us to differentiate them in a gram stain?
  - b. Discuss two commercially important processes dependent on bacterial metabolic fermentation.

(25 mark)
  
3.
  - a. Why the Kingdom Protista is considered as the most diverse Kingdom?
  - b. Discuss commercial and ecological importance of algae.

(25 mark)
  
4.
  - a. List characteristics that distinguish fungi from other organisms
  - b. Discuss the uses of fungi in food and pharmaceutical industries.

(25 mark)

