


Uva Wellassa University of Sri Lanka
Faculty of Science and Technology
Department of Science and Technology
100 level 2nd Semester Examination – Dec.-2017/Jan.-2018
SCT 111-2 Bioprospecting


Uva Wellassa
University

Instructions to candidates

Duration: Two (02) hours

Number of questions: Four (04) essay questions

Answer all questions

Mark allocation: 100



1.
 - a. Describe the structural difference between a gram (+) and gram (-) bacterium. How does this help us to differentiate them in a gram stain? (10 mark)
 - b. Discuss two commercially important processes dependent on bacterial metabolic fermentation. (15 mark)

2.
 - a. Why is the Kingdom Protista considered as the most diverse Kingdom? (10 mark)
 - b. Discuss commercial and ecological importance of algae. (15 mark)

3.
 - a. List characteristics that distinguish fungi from other organisms. (10 mark)
 - b. Discuss the uses of fungi in food and pharmaceutical industries. (15 mark)

4.
 - a. List key morphological features of molluscs (10 mark)
 - b. Name the parts of a flower and state functions of each part. (5 mark)
 - c. Discuss the importance of having seeds for terrestrial plants. (10 mark)

5. Write short notes on the following.
 - a. Lichen
 - b. Embryonic development in animals
 - c. Fusion
 - d. Sporophyte (25 mark)