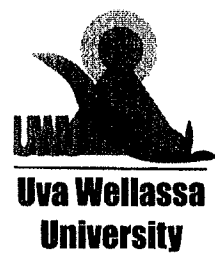




UvaWellassa University  
Faculty of Animal Science and Export Agriculture

BSc in Tea Technology and Value Addition  
End Semester Examination –August/ September 2014



Year II Semester I  
Microbiology- TEA 234-2

---

**Instructions**

Answer **all** the questions

No. of questions : 03

No .of pages : One (01)

Time : 01 hour

Total marks allocated : 45 %

Index No.

---

**Part III–Essay**

**Question 01**

Discuss the role of microorganisms in maintaining the ecological balance of the earth's ecosystems.

(15 marks)

**Question 02**

Using labeled diagrams explain how the Gram stain differentiates two types of cells on the basis of the structure and other properties besides staining, Gram-positive and Gram-negative bacteria

(15marks)

**Question 03**

Compare and contrast the followings;

- a. Microbial fermentation and anaerobic respiration
- b. Typical growth curve of bacteria and fungi
- c. Light microscope and electron microscope

(15 marks)