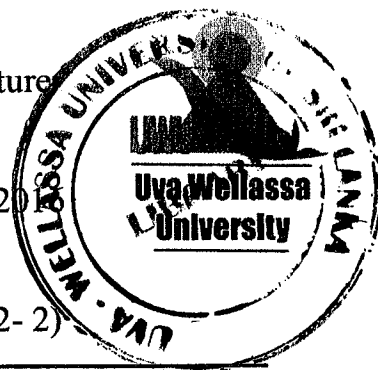


Uva Wellassa University
Faculty of Animal Science and Export Agriculture
BSc in Export Agriculture

End Semester Examination - January/February 2018
Year II - Semester II

Advanced Agricultural Microbiology (EAG 212- 2)



Instructions

Answer only four (04) questions

No. of questions : Five (05)

No. of pages : Two (02)

Total marks allocated : 100%

Time : 2 hours

ESSAY

Question 1

(25 Marks)

“Microorganisms play an important role in the production of fermented food and beverages”. Discuss on the above statement, at least giving ten (10) examples for the microbial fermentation used in food microbiology.

Question 2

(25 Marks)

What is ‘Rhizosphere’? Write an account on the importance of Rhizosphere microorganisms in soil fertility.

Question 3

(25 Marks)

Coliform bacteria is used as one of the common indicator microorganisms to test microbial quality of drinking water. Briefly explain the useful characteristics of an indicator microorganism considering coliform as the example.

Question 4

(25 Marks)

What are the desirable properties of microorganisms that are used in industrial bioprocesses? Explain your answer considering yeast as the model microorganism.

Question 5

(25 Marks)

Write short notes on three (03) of the following topics.

- a) Bio-fertilizers
- b) Bioremediation
- c) Bioreactors
- d) Biofilms
- e) Micorrhiza

