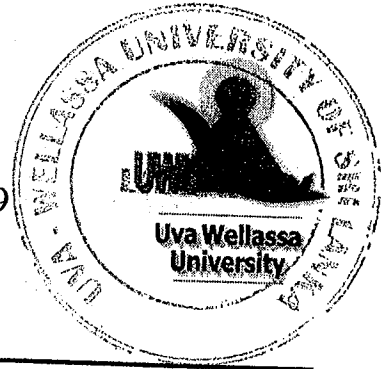


Uva Wellassa University
B.Sc. in Export Agriculture

End Semester Examination June/July 2009
Year III Semester II



Agricultural Biotechnology EAG 315-2

Instructions

Answer **Three** questions including **Question 1**

No. of questions : Four (04)

No. of pages : Two (02)

Total marks allocated : 60%

Time : One hour (1hr)

Index No:

Part II - Essay

Question 1

I. What is DNA fingerprinting?

(3 Marks)

II. What are the molecular techniques that can be used in DNA fingerprinting?

(5 Marks)

III. A baby found a war victim, was to be identified because two couples claimed that the baby was their child. To verify this in a court, judge ordered a scientist to do a DNA analysis of the baby and the two couples. If you happen to be the scientist, identify the technique that can be used and explain how you are going to identify the real parents of the child.

(12 Marks)

Question 2

I. What is a transgenic plant?

(3 Marks)

II. What are the uses of transgenic plants?

(5 Marks)

III. Explain briefly 3 basic methods that can be used in producing a transgenic plant.

(12 Marks)

Question 3

- I. What is Bio-fuel? (3 Marks)
- II. What are three basic steps involved and materials used in the production of bio-ethanol? (5 Marks)
- III. Explain briefly with examples the use of microorganisms and biotechnological tools in the production of bio-ethanol (12 Marks)

Question 4

- I. What are agricultural wastes? (3 Marks)
- II. What is bioremediation? (5 Marks)
- III. Explain briefly the biotechnological applications in waste management (12 Marks)