



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

INSTITUTIONAL BASED PROGRAMME (IBP) DECEMBER SESSION

EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE

SBT 538: BIOTECHNOLOGY OF GENETIC ANALYSIS

DATE: Friday, 29th April, 2011

TIME: 9.00a.m. – 12.00noon

INSTRUCTIONS:

Answer **ANY FOUR** questions.

All questions carry **equal** marks.

Use illustrations and relevant examples where appropriate.

1. Describe the steps involved in *in vivo* gene cloning.
2. Write an essay on immobilized cell and enzyme systems.
3. Discuss the methods used in genetic engineering of plants.
4. Discuss the application of biotechnology in agriculture, pharmaceutical production, food processing and waste management.
5. Discuss the molecular markers used in plant genome analysis.