



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

INSTITUTIONAL BASED PROGRAMME (IBP) DECEMBER SESSION

EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE

SBT 534: GENOME ORGANISATION AND REGULATION

DATE: WEDNESDAY, 27TH APRIL 2011

TIME: 9.00A.M. –12.00 P.M.

INSTRUCTIONS:

Answer Any Four Questions. Each question carries 25 marks.

1. Discuss various mechanisms of regulating gene expression in prokaryotes.
2. Discuss various DNA replication models emphasizing in the current accepted one.
3. Discuss DNA packaging and repetitive DNA sequences in eukaryotic cells.
4. Giving examples, discuss transposable DNA elements.
5. Write an essay on various levels of regulation of gene expression in eukaryotes.