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EASTERN UNIVERSITY, SRI LANKA
FIRST YEAR EXAMINATION IN SCIENCE 2012/2013 (AUG/SEP 2015)
SECOND SEMESTER
ZL 103 GENETICS



Time: 01 hour.

Answer all questions.

Illustrate your answers with clear labeled diagrams where necessary)



1. a). List the different mechanisms occur during gene expression of Eukaryotes. (15 marks)
- b). Giving an example in detail, describe how a bacterial gene is regulated to synthesize a required gene product. (35 marks)
2. Comment on **any two** of the following:
 - a). Polytene chromosomes. (25 marks)
 - b). Method to screen auxotrophic mutations in bacteria. (25 marks)
 - c). T.H.Morgan's experiment on sex linkage in *Drosophila*. (25 marks)
 - d). Burkitt's lymphoma. (25 marks)

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