

23 AUG 2013

EASTERN UNIVERSITY, SRI LANKA  
FIRST YEAR EXAMINATION IN SCIENCE 2010/2011 (JUNE 2013)  
SECOND SEMESTER (PROPER & REPEAT)  
ZL 103 GENETICS

Time: 01 hour

Answer all questions.

(Illustrate your answer with clear labeled diagrams where necessary)

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1. a). what is sex linkage?  
b). Comment on T.H. Morgans's experiment on sex linkage in *Drosophila*.  
c). Briefly describe the test cross and its significance.
  
2. Comment on **any two** of the following:
  - a. Ordered tetrads and its usage for gene mapping in fungi;
  - b. Chloroplast chromosome;
  - c. Sex determination in animals;
  - d. Translocation in Chromosome.

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