

EASTERN UNIVERSITY, SRI LANKA  
SECOND EXAMINATION IN SCIENCE 2004/2005( Oct/Nov 2006)  
SECOND SEMESTER

**ZL 203- GENETICS & DEVELOPMENTAL BIOLOGY**

Time: Two hours

Answer all questions

(Illustrate your answers with clear labeled diagrams where necessary)

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1. Write an account of giant chromosomes and its significance to genetics and developmental studies.
  
2. Comment on any two of the following
  - a). Primary induction and neural tube formation
  - b). Mutagenic agents
  - c). Processing of heterogeneous mRNA ( hn mRNA)
  
3. Describe briefly on either  
  
Role of hormones in menstruation  
  
or  
  
Sanger's sequencing of DNA molecules.
  
4. Write short notes on any two of the following
  - a). Genetics basis of small shell coiling
  - b). Southern blotting
  - c). Gynandromorphs.

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