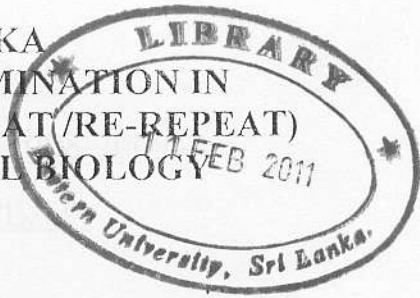


EASTERN UNIVERSITY, SRI LANKA  
SECOND YEAR SECOND SEMESTER EXAMINATION IN  
SCIENCE 2008/2009 (SEP/OCT/NOV 2010) (REPEAT/RE-REPEAT)  
ZL 203 GENETICS AND DEVELOPMENTAL BIOLOGY



Time:02 hours.

Answer all questions.

(Illustrate your answers with clear labeled diagrams where necessary)

1. Describe in detail the Lac-operon system in Prokaryotes.
2. Write short notes on **any two** of the following:
  - a). Snail shell coiling;
  - b). Polytene chromosome;
  - c). Inversion in a chromosome;
  - d). Southern blotting.
3. a). What is regeneration?  
b). Briefly describe the limb regeneration in Amphibia.
4. Comment on **any two** of the following:
  - a). Strongly telolecithal egg;
  - b). Neural tube formation in amphibia;
  - c). Intrauterine device (IUD);
  - d). Role of progesterone hormone in human.

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