

EASTERN UNIVERSITY, SRI LANKA
SECOND YEAR EXAMINATION IN SCIENCE 2009/2010 (April 2012)
SECOND SEMESTER (Re-repeat)
ZL 203 GENETICS AND DEVELOPMENTAL BIOLOGY



Time: 02 hours.

Answer all questions.

(Illustrate your answers with clear labeled diagrams where necessary)

1. a). Briefly describe the construction of recombinant DNA.
b). List the application of recombinant DNA.
2. Write short notes on **any two** of the following:
 - a). Lampbrush chromosome;
 - b). Translocation;
 - c). Southern blotting;
 - d). Mutagenic agents.
3. a). What is contraception?
b). Discuss the methods in contraception and indicate the advantages and disadvantages of each method.
4. Comment on any two of the following:
 - a). Telolecithal egg;
 - b). Trisomy 18;
 - c). Neural plate formation in the gastrula of an amphibia;
 - d). Acrosome reaction.

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