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EASTERN UNIVERSITY, SRI LANKA
SECOND YEAR IN SCIENCE 2005/2006(Mar-Apr'08)
SECOND SEMESTER (Repeat & Re-repeat)
ZL 203 GENETICS & DEVELOPMENTAL BIOLOGY

Time: 2 hours

Answer all questions.

(Illustrate your answers with clear labeled diagrams where necessary)

1. Using human as an example,
 - a. describe the structure of a chromosome;
 - b. the effects of changes in chromosomal structure and number in both autosomes and sex chromosomes.

2. Comment on **any two** of the following
 - a. IS elements
 - b. Maternal inheritance in flour moth
 - c. Southern blotting
 - d. Mutagenic agents.

3.
 - a. What is induction and competence in organ development?
 - b. Discuss the role of inducers and competence in the development of an amphibian eye.

4. Write short notes on **any two** of the following
 - a. Permanent contraception in human
 - b. Formation of recombinant DNA
 - c. Lampbrush chromosome
 - d. Regeneration in Planaria.

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