

EASTERN UNIVERSITY, SRI LANKA
3 001 9

EASTERN UNIVERSITY, SRI LANKA
SECOND EXAMINATION IN SCIENCE 2003/2004
(JUNE/JULY 2005)
SECOND SEMESTER

ZL 203- GENETICS & DEVELOPMENTAL BIOLOGY

Time 02 hours

Answer all questions.

(Illustrate your answers with clear labeled diagrams where necessary)

01. a) What do you understand by the term extranuclear inheritance?
b) List three examples for extranuclear inheritance pattern in Eukaryotes.
c) Describe briefly maternal inheritance in snail.

02. Comment briefly on any two of the following:
a) P-elements in *Drosophila*;
b) lampbrush chromosomes;
c) polyploid plants;
d) deletion on chromosome.

03. a) What is metamorphosis?
b) Briefly describe metamorphosis of a named holometabolous insect, indicate the role of hormones on the above.

04. Write short notes on any two of the following:
a) trisomy 21;
b) telolecithal egg;
c) wound healing;
d) IUI (Intra Uterine Insemination).

XXXXX