

EASTERN UNIVERSITY, SRI LANKA
SECOND EXAMINATION IN SCIENCE 2003/2004 (Proper)
EXTERNAL DEGREE

EXTZL 203- GENETICS AND DEVELOPMENTAL BIOLOGY

Time : **Two** hours

Answer **all** questions.

(Illustrate your answers with clear labeled diagrams where necessary).

1.
 - a. What is a mutation?
 - b. What are the screening methods that you will use to find out a mutation in an organism?
 - c. Describe one of these methods that you have mentioned in part **1b**.

2. Comment on **any two** of the following
 - a. Tautomeric shift
 - b. RNA splicing
 - c. Turner syndrome

3. Describe briefly on **either**

Age related diseases

or

Formation of lens and cornea in amphibian eye.

4. Write short notes on **any two** of the following
 - a. Vasectomy
 - b. Role of progesterone in human development
 - c. Sex linked recessive character