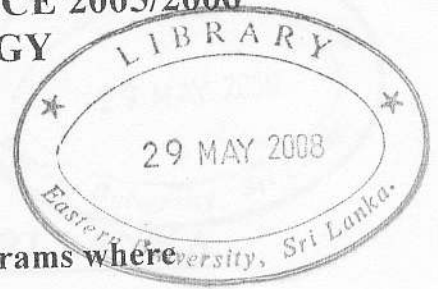


**EASTERN UNIVERSITY, SRI LANKA**  
**THIRD EXAMINATION IN SCIENCE 2005/2006**  
**ZL 301 HUMAN BIOLOGY**



**Time: 2 hours**

**Answer all questions**

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

1. Write an account on each of the following:
  - a. Sliding filament theory of muscle contraction
  - b. Bipedal adaptation in the human skeleton
  
2. Write a brief essay on any one of the following:
  - a. Five isotopes of immunoglobulins and their functions
  - b. Neurotransmitters and their function
  
3. Describe the structure and functions of following:
  - a. Human Pancreas
  - b. Human Small intestine
  - c. Human Kidney
  
4. Describe briefly the structure of human respiratory system and discuss how oxygen and carbon dioxide are transported in the blood.

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