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Univer

EASTERN UNIVERSITY, SRI LANKA
FIRST EXAMINATION IN SCIENCE 1998/99 RE-REPEAT
EXTERNAL DEGREE (TERM SYSTEM) 2004/05 JUNE 2008
EX ZL 101 CELL BIOLOGY

Time: 02 hours

Answer four questions only.

(Illustrate your answers with clear labeled diagrams where necessary)

1. a. Name four important cell organelles in an animal cell and comment on its function in respect of its structure.
b. Comment briefly on the molecules transfer by active mechanism across the plasma membrane.
2. Explain the protein configuration and describe at least one functional protein in an animal cell.
3. Describe the structure and function of the plasma membrane with a fully labeled diagram.
4. Explain the term “metabolism” and discuss the fate of glucose in the carbohydrate metabolism.
5. Comment on **any two** of the following
 - a. protein synthesis
 - b. enzyme specificity
 - c. DNA replication
6. a. Briefly explain the terms of magnification and resolving power of a light microscope.
b. Comment on the role of Stanley Miller’s experiment in the cells discovery.

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