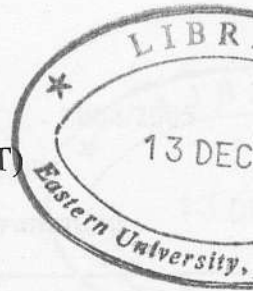


EASTERN UNIVERSITY, SRI LANKA
FIRST YEAR IN SCIENCE 2004/2005
EXTERNAL DEGREE (PROPER & REPEAT)
EXT ZL 101 CELL BIOLOGY



Time : 02 hours

Answer all questions.

(Illustrate your answer with clear labeled diagrams where necessary)

1. a. Name three major cell organelles in an animal cell and briefly describe them.
b. Explain the structure and functions of the plasma membrane.
2. a. Briefly comment on the fate of cytoplasmic NADH and pyruvate in the carbohydrate metabolism.
b. Briefly describe the protein structure and its configurations.
3. a. Explain the enzyme specificity and its kinetics.
b. Comment on the role of trans membrane protein in the transfer of molecules across the membrane.
4. Write short notes on **any two** of the following:
 - a. Protein synthesis;
 - b. Stanley Miller's experiment and cells discoveries;
 - c. Differences between the light and electron microscopes.

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