

EASTERN UNIVERSITY, SRI LANKA
FIRST EXAMINATION IN SCIENCE -2008/2009 (July 2010)
EXTERNAL DEGREE
FIRST SEMESTER



EXTZL 101-CELL BIOLOGY

Time : 02 hours.

Answer all questions.

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

1.
 - a). Define the cell theory and briefly discuss the role of the Stanley Miller in the invention of cell.
 - b). Name three major organelles in an animal cell and describe the structure and function.

2.
 - a). Briefly describe the fate of glucose in an animal cell with special reference to metabolic pathways .
 - b). Comment on the carnitine cycle.

3.
 - a). Describe the structural configuration and their function of protein molecule.
 - b). Name the stored animal carbohydrate and comment on it.

4. Write notes any two of the following:
 - a). Enzyme specificity
 - b). Protein synthesis
 - c). Cell cycle