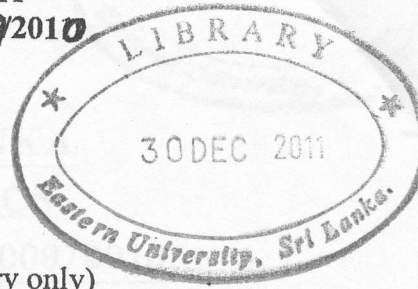


EASTERN UNIVERSITY, SRI LANKA
FIRST EXAMINATION IN SCIENCE -2009/2010
FIRST SEMESTER

ZL 101- CELL BIOLOGY



Time: 02 hours

Answer all questions.

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

1. a). Define the cell theory and describe with a labeled diagram of an animal cell only how a living animal cell carries out the biological activities by itself.
- b) Comment on the configuration and classification of Protein molecule.
2. a) Describe the process of glycolysis and gluconeogenesis and state how a living organism maintains a balance between both process .
- b) Write a brief note about the active transport mechanism during molecular transport across the membrane.
3. a) Describe in detail the steps of the Protein synthesis from a free ribosome to termination of polypeptide.
- b). Briefly comment on the enzyme specificity with suitable examples.
4. Write notes on the following:
 - a) Cell- Cell Interaction
 - b) Cytokinesis
 - c) Transmembrane proteins

XXXXX