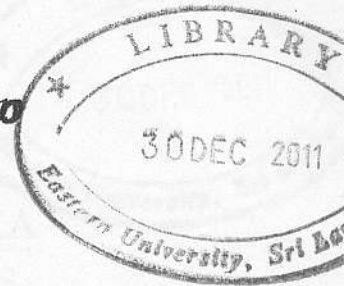


EASTERN UNIVERSITY, SRI LANKA  
FIRST EXAMINATION IN SCIENCE -2009/2010  
FIRST SEMESTER



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