

EASTERN UNIVERSITY, SRI LANKA
DEPARTMENT OF ZOOLOGY
FIRST YEAR IN SCIENCE 2010/2011 (Nov. 2012)
FIRST SEMESTER (Proper and Repeat)
ZL 101 CELL BIOLOGY

23 AUG 2013



Time : 02 hours.

Answer all questions.

(Illustrate your answer with clear labeled diagrams where necessary)

1. a) Comment on three major cell organelles that are found in animal cell.
b) Briefly discuss the structure of plasma membrane that is well adapted for the cell-cell interaction in animal cells.

2. What is the basic unit of the protein? Explain the different configuration of protein and its role in the cell biochemical function

3. Comment on **any two** of the following:
 - a) Factors affecting the enzyme activity;
 - b) Fate of cytoplasmic NADH in glucose metabolism;
 - c) Glucaneogenesis.

4. Write short notes on the following:
 - a) Protein translation;
 - b) Defense system in an animal cell;
 - c) DNA replication.

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