

[11.00] 2014

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EASTERN UNIVERSITY, SRI LANKA
FIRST EXAMINATION IN SCIENCE 2011/2012 (JAN 2014)
FIRST SEMESTER

ZL 101 – CELL BIOLOGY

Time: 02 hrs

Answer **all** questions.

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

1. a) "A living cell is carrying out all the functions successfully". comment on this statement briefly with the structure of a cell.
b) Name and write a brief note on the function of transmembrane protein found on the membrane.

2. Name the bio polymers found on a living cell and describe the structure and function of one of the polymer stated with special reference to its configuration .

3. Write note on **two** of the following:
 - a) enzymes and enzyme specificity ;
 - b) fate of cytoplasmic NADH in glucose metabolism;
 - c) DNA replication

4. a) Describe briefly on the receptor mediated molecules transfer across the membrane .
b) Comment on the translation process of protein synthesis of Ecoli.