

EASTERN UNIVERSITY, SRI LANKA
FIRST EXAMINATION IN SCIENCE 2002/2003
FIRST SEMESTER(JUNE 2003)

ZL 101- CELL BIOLOGY & BIOCHEMISTRY

Time : 02 hours

Answer all questions.

(Illustrate your answers with clear labelled diagrams wherever necessary).

01. a.) Comment on any two phospholipid bilayered organelles found in animal cell.
b.) State the types of trans membrane proteins found in the plasma membrane of an animal cell and discuss their role in cell-cell interactions.

02. a.) Briefly comment on the fate of cytoplasmic NADH and pyruvate in the carbohydrate metabolism.
b.) Describe the cell cycle and the main event in it.

03. a.) Comment briefly on the enzyme specificity and kinetics.
b.) Comment on the types and structure of RNA and state the differences between the RNA and DNA.

04. Write short notes on the following:
 - a.) Polysaccharides,
 - b.) Receptor mediated molecular transport,
 - c.) Differences between the light and electron microscope.