EASTERN UNIVERSITY, SRI LANKA FIRST EXAMINATION IN SCIENCE 2003/2004(Nov/Dec2004) ZL 101- CELL BIOLOGY & BIOCHEMISTRY FIRST SEMESTER

Time: 02 hours

Answer all questions.

(Illustrate your answers with clear labeled diagrams where necessary)

- 1.a) Briefly describe the fluid mosaic model of the plasma membrane and comment its role in the molecules transport across the membrane.
 - b) Comment on the origin and function of lysosome and state how it can be distinguished from the peroxisome.
- 2.a) Explain the structure of a protein with special reference to different configurations of protein.
 - b). Comment on the fate of NADH and FADH2 in the glucose catabolism...
- 3. Write short notes on the following:
 - a) Enzyme specificity
 - b) DNA replication
 - c) Carnitine cycle
- 4. Describe briefly protein synthesis in prokaryotic cells and discuss the main differences in protein synthesis between prokaryotes and eukaryotes.

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