

EASTERN UNIVERSITY, SRI LANKA
FIRST YEAR EXAMINATION IN SCIENCE 2015/2016
FIRST SEMESTER(July/Aug2017)
ZL 101- CELL BIOLOGY

Time 02 hours.

Answer **all** questions.

Illustrate the fluid mosaic model of the plasma membrane with an annotated diagram and comment briefly on the role of the membrane in the movement of materials through it by the following processes.

- a) Active transport (60marks)
- b) Facilitated diffusion (40marks)

Comment on any **two** of the following:

- a) Glycogenesis Vs. Glycogenolysis; (50marks)
- b) Carnitine transport; (50marks)
- c) Glycerol-phosphate shuttle. (50marks)

Discuss briefly the importance of Protein in relation to biochemical structure and function in a living cell.

(100marks)

Write short notes any **two** of the following:

- a) Translation process in protein synthesis; (50marks)
- b) Checkpoints of cell cycle; (50marks)
- c) Lysosome vs Peroxisome. (50marks)

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