

**FIRST YEAR EXAMINATION IN SCIENCE 2016/2017 ( Repeat- Old Syllabus)**  
**FIRST SEMSTER**  
**ZL101 CELL BIOLOGY**

**Time: 02 hours.**

**Answer all questions.**

**(Illustrate your answers with clear labelled diagrams where necessary)**

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1. a). Describe briefly the structure and function of the plasma membrane of a cell. (50 marks)

b). Comment on the Oxidative phosphorylation in the process of glucose metabolism. (50 marks)

2. a). Explain the molecules transfer through active transport across the membrane. (50 marks)

b). Comment briefly on the configuration and classification of protein molecule. (50 marks)

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

a). Cell- cell interaction and communication ; (50 marks)

b). Protein synthesis in Prokaryotes ; (50 marks)

c). Lysosomes and peroxisomes. (50 marks)

4. Write notes on **any two** of the following:

a). Gluconeogenesis; (50 marks)

b). Cell cycle; (50 marks)

c). Animal carbohydrates. (50 marks)

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