

**UNIVERSITY OF KABIANGA**

**UNIVERSITY EXAMINATIONS**

**2013/2014 ACADEMIC YEAR**

**SUPPLIMENTARY/SPECIAL EXAMINATION**

**SECOND YEAR SECOND SEMESTER EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCENCE IN MICROBIOLOGY**

**COURSE CODE: MIC 213**

**COURSE TITLE: CELL BIOLOGY**

**DATE: 18TH SEPTEMBER, 2014**

**TIME: 8.00 A.M-11.00 A.M**

**INSTRUCTIONS TO CANDIDATES:**

Answer **ALL** questions in **section A** and any other **three** questions in **section B**. Total marks (70)

**SECTION A; (28 MARKS)**

1. State **four** hydrolytic function of the lysosomes. (4 marks)
2. Explain **three** factors that determine the cell size. (3 marks)
3. State **four** functions of a cell wall. (5 marks)
4. Explain **two** significance of;
5. Mitosis. (2 marks)
6. Meiosis. (2 marks)
7. Explain **three** branches of modern cell biology. (3 marks)
8. State **four** importance of active transport. (4 marks)
9. State **four** types of cell junctional complexes. (4 marks)

**SECTION B; (42 MARKS)**

1. Explain in details the process of gametogenesis. (14 marks)
2. Discuss the regulation of a cell cycle. (14 marks)
3. Discuss the dark phase of photosynthesis. (14 marks)
4. In details, discuss the term chromosomes. (14 marks)