



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012
OPEN, DISTANCE AND e-LEARNING
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE
SZL 104 : INTRODUCTION TO CELL BIOLOGY

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DATE: Friday 16th December, 2011

TIME: 11.00 a.m. – 1.00 p.m.

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INSTRUCTIONS

Answer ALL Questions from Section A and any ONE Questions from Section B

Within a Section ALL questions carry equal marks.

Illustrate your answers with diagrams and give example where appropriate.

SECTION A: Answer ALL questions (40 marks)

1. Describe the types of lysosomes.
2. Explain the functions of the following microbodies.
 - a) Glycosomes
 - b) Hydrogenosomes
 - c) Glyoxisomes
 - d) Peroxisomes

3. Describe the structure and functions of eukaryotic cell ribosomes
4. Illustrate the types of flagellation seen on bacterial cells.
5. Describe the structure and functions of the three types of cartilage
6. Describe the structural and functional differences between smooth muscles and skeletal muscle cells.
7. Difference between mitosis and meiosis.
8. Describe the process of Oogenesis.

Section B: Answer any ONE Question (30 marks)

9. Describe in detail the characteristics, classification and functions of epithelial cells.
10. Describe the types of endocytosis seen in animal cells.
11. Discuss the chemical components of cell membranes.