

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF INDUSTRIAL TECHNOLOGY

DEPARTMENT OF TECHNICAL TEACHER EDUCATION

BACHELOR OF EDUCATION HONOURS DEGREE

GENERAL EXAMINATION

Course:	Cell Biology	TBE 1236
Part/year:	I	June 2011
Time:	3 hours	100 marks

Instructions

1. Answer any **FOUR [4]** questions.
 2. Questions maybe answered in any order
 3. All questions carry [**25 marks**] each
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QUESTION 1

Write short essays on the structure and function of the following organelles:

- a) Golgi apparatus. (6 marks)
- b) Lysosomes. (9 marks)
- c) Rough endoplasmic reticulum. (10 marks)

QUESTION 2

Describe the sequence of events for making a permanent slide for studying cells under a light microscope. (25 marks)

QUESTION 3

Discuss the importance of the cell membrane and then outline the structure of the membrane that enable it to perform its function. (25 marks)

QUESTION 4

Give a narrative of the characteristics distinguishing prokaryotic from eukaryotic cells.
(25 marks)

QUESTION 5

Write an essay on the structure and function cell junctions.
(25 marks)

QUESTION 6

Explain steps you would follow to show mitosis in a growing onion root and meiosis in the testis of a locust and then narrate the sequence of events in meiosis.
(25 marks)

END OF EXAMINATION