



RONGO
UNIVERSITY COLLEGE

(A Constituent College of Moi University)

OFFICE OF THE DEPUTY PRINCIPAL- ACADEMICS AND STUDENTS AFFAIRS

UNIVERSITY EXAMINATIONS

2013/2014 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATION

FOR

THE DEGREE

IN

BACHELOR OF SCIENCE (AGRI., ENV., HORT., ABM.)

COURSE CODE: BOT 110

COURSE TITLE: BASIC BOTANY

DATE: 28/2/2014

TIME: 2.00PM-5.00PM

INSTRUCTIONS TO CANDIDATES

- Answer **ALL** questions from section A and any **THREE** from section B.
- Do not write on the question paper.
- Switch off your mobile phones.
- Each question should begin on a fresh page
- Marks are shown at the end of each question
- Duration is 3 hours

PLEASE TURN OVER

THIS PAPER CONSISTS (2) PRINTED PAGES

SECTION A (ANSWER ALL QUESTIONS IN THIS SECTION):

QUESTION ONE:

- (a) What are simple tissues? (2mks)
(b) How do we classify simple tissues? (2mks)

QUESTION TWO:

What are parenchyma cells? Mention any three of their functions in plants. (4mks)

QUESTION THREE:

- A first year Botany student was asked to design an experiment to demonstrate plasmolysis
(a) Describe the most appropriate experiment one can undertake to demonstrate this process. (3mks)
(b) What can you draw from this experiment? 2mks

QUESTION FOUR:

Explain how you can prepare a wet mount / hanging drop technique. (4mks)

Briefly describe nutrition in fungi. (3mks)

QUESTION FIVE:

Explain how bacteria are classified on the basis shapes. (3mks)

QUESTION SIX:

Explain why viruses are termed as obligate intra-cellular parasites? (3mks)

SECTION B (ATTEMPT ANY TWO QUESTIONS FROM THIS SECTION):

QUESTION SEVEN:

Describe the process of specimen preparation and staining to accentuate their specific morphological features and to preserve them for future study. (20mks)

QUESTION EIGHT:

Citing examples compare and contrast procaryotic and eukaryotic cells. (20mks)

QUESTION NINE:

Describe the various types of tissues that are grouped under meristematic tissues. (20mks)

QUESTION TEN:

Discuss the economic importance of Algae.

(20mks)