



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2023/2024

FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY, BACHELOR OF AGRICULTURAL EDUCATION AND EXTENSION, BACHELOR OF SCIENCE IN AGRICULTURE, BACHELOR OF SCIENCE IN ENVIRONMENTAL MANAGEMENT, BACHELOR OF SCIENCE IN BIOTECHNOLOGY AND BACHELOR OF BIOLOGICAL SCIENCES

SECOND YEAR SECOND SEMESTER BACHELOR OF EDUCATION SCIENCE AND BACHELOR OF SCIENCE IN AGRICULTURE

SBA 3150: PLANT MORPHOLOGY AND ANATOMY

DATE: APRIL 2024

TIME: 2 HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Illustrate the following
 - i. Epigenous, perigynous and hypogynous flowers (6 marks)
 - ii. Monoecious, delictious and synoecious (6 marks)
- b) Distinguish among the three main types of cell found in plants (6 marks)
- c) Explain using a diagram three types of roots found in plants (6 marks)

QUESTION TWO (20 MARKS)

Discuss the adoptions of flower to their function in terms of morphology and anatomy (20 marks)

QUESTION THREE (20 MARKS)

Explain the organization of plants in terms of tissues, organs and systems (20 marks)

QUESTION FOUR (20 MARKS)

Discuss the adoptions and diversity of fruits and seeds for dispersal (20 marks)