

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND REPRODUCTION

BIOL 00100: BOTANY AND ZOOLOGY

STREAMS: CERT.

TIME: 2 HOURS

DAY/DATE: MONDAY 05/07/2021

5.00 P.M. – 7.00 P.M.

INSTRUCTIONS:

- Answer all questions in section A (30 marks).
- Answer any two questions in section B (40 marks).

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

- Give any three taxa used in the classification of organisms. (3 marks)
 - Give two differences between prokaryotic and eukaryotic cells. (2 marks)
- Give the scientific name of:
 - Maize (1 mark)
 - Cow (1 mark)
 - Name
 - Two organ systems of an animal (1 mark)
 - Two organs of a plant (1 mark)
 - Differentiate between meiosis and mitosis. (1 mark)
- Explain with an example the Mendelian Genetics. (4 marks)
 - Name two branches of Zoology. (1 mark)

4. (a) With a clear diagram, illustrate the animal cell. (5 marks)
- (b) Define and explain with examples on cells and tissue types in plants. (3 marks)
5. (a) Illustrate on plant metabolism. (3 marks)
- (b) Define the following terms
- (i) Morphology (1 mark)
 - (ii) Pathology (1 mark)
 - (iii) Ornithology (1 mark)
 - (iv) Species (1 mark)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

6. Write an essay on important of Botany. (20 marks)
7. Elaborate on classification Kingdom Fungi. (20 marks)
8. Expound on the structure of the plant cell. (20 marks)
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