****

**GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2020/2021 ACADEMIC YEAR ONE**

**SECOND SEMESTER EXAMINATION**

**SCHOOL OF SCHOOL OF PURE AND APPLIED SCIENCES**

**FOR THE DEGREE OF BACHELOR OF EDUCATION**

**COURSE CODE: ZOO 111**

**COURSE TITLE: GENERAL ZOOLOGY**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 09/10/2021 TIME: 09.00-11.00 AM**

**INSTRUCTION TO CANDIDATES**

* **The examination has FIVE (5) questions**
* **Question ONE (1) is COMPULSORY**
* **Choose any other TWO (2) questions from the remaining FOUR (4) questions**
* **Use sketch diagrams to illustrate your answer whenever necessary**
* **Do not carry mobile phones or any other written materials in examination room**
* **Do not write on this paper**

**This paper consists of TWO (2) printed pages *please turn over***

**QUESTION ONE (COMPULSORY)**

1. Explain aspects of modern “cell theory” (3marks)
2. Define negative feedback mechanisms (2marks)
3. Explain the main nitrogenous metabolic waste in animals (6 marks)
4. Outline four respiratory surfaces in amphibians (4marks)
5. Discuss functions of different components of a nuclear in an animal cell (10marks)
6. Highlight advantages of extracellular digestion (5marks)

**QUESTION TWO**

1. Discuss importance of digestion in animals (10 Marks)
2. Evaluate different types of hearts in animals (10marks)

**QUESTION THREE**

1. Discuss the factors that influence blood pressure (10marks)
2. Discuss five differences between prokaryotes and eukaryotes (10marks)

**QUESTION FOUR**

 Write an essay on different mechanisms of asexual reproduction (20marks)

**QUESTION FIVE**

1. Explain operation of neuroendocrine system in animals (10marks)
2. Discuss binomial nomenclature system (10marks)