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**GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2019/2020 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: BASIC ZOOLOGY II**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 18/12/2020 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. Discuss the modern “cell theory” **[5 marks]**
2. State five functions of epithelial tissues in animals **[5 marks]**
3. Using examples differentiate between intracellular and extracellular digestion **[5 marks]**
4. Discuss four different types of hearts in animals **[8 marks]**
5. State three metabolic wastes that are excreted by human skin **[3 marks]**
6. State four hormones that are involved in sugar regulation **[4 marks]**

**QUESTION TWO**

1. State five advantages of extracellular digestion **[5 marks]**
2. Discuss nitrogenous waste excretion in animals **[15 marks]**

**QUESTION THREE**

1. Discuss the factors that influence blood pressure **[10 marks]**
2. Discuss the different mechanisms of asexual reproduction **[10 marks]**

**QUESTION FOUR**

Write an essay on respiratory surfaces types in animals **[20 marks]**

**QUESTION FIVE**

1. Discuss the operation of neuroendocrine system in animals **[10 marks]**
2. Describe positive and negative feedback in homeostasis **[10 marks]**