



## **GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2017/2018 ACADEMIC YEAR TWO  
SECOND SEMESTER EXAMINATION**

**SCHOOL OF EDUCATION ARTS AND SOCIAL SCIENCES**

**FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE**

**COURSE CODE: ADB 211**

**COURSE TITLE: SPECIAL METHOD IN BIOLOGY**

**EXAMINATION DURATION: 3 HOURS**

**DATE: 17/04/18**

**TIME: 09.00-12.00 PM**

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### **INSTRUCTION TO CANDIDATES**

- The examination has **SIX (6)** questions
- Question **ONE (1)** is **COMPULSORY**
- Choose any other **THREE (3)** questions from the remaining **FIVE (5)** 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)

- i. Describe five teaching method that can be used to teach classification in biology to high school students [5 marks]
- ii. Highlight three main branches of science [3 marks]
- ii. Explain two ways in which biology knowledge has been applied in the field of health [4 marks]
- iii. Discuss four different types of resources that can be used to teach Reproduction in plants to form three students [8 marks]
- iv. List three goals of teaching biology in Kenyan secondary schools [3 marks]
- v. Differentiate between an aquarium and herbarium [2 marks]

### QUESTION TWO

- i. Explain five advantages of having a biology laboratory closer to other science laboratories [10 marks]
- ii. State five scientific attitudes that help learners to perform well in biology [5 marks]

### QUESTION THREE

- i. Highlight seven responsibilities of a biology lab technician [7 marks]
- ii. Explain four scientific skills the learners are suppose to gain by carrying out an experiment on “Estimation of cell size by use of a microscope” [8 marks]

### QUESTION FOUR

Write an essay on Five teaching facilities that are commonly used in teaching biology [15 marks]

### QUESTION FIVE

- i. Tabulate four chemicals that are used in food testing and their function [8 marks]
- ii. Explain three implications for teaching science that was influenced by Jerome Brunner’s recommendation [7 marks]

### QUESTION SIX

- i. Discuss Four advantages of using Heuristic approach in teaching biology [9 marks]
- ii. Highlight three ways through which biology knowledge has been misused by human kind [6 marks]

