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**GARISSA UNIVERSITY**

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

**SECOND SEMESTER EXAMINATION**

**SCHOOL OF EDUCATION, ARTS AND SOCIAL SCIENCES**

**FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)**

**COURSE CODE: CIM 321**

**COURSE TITLE: SPECIAL METHODS BIOLOGY II**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 08/10/2021 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. Identify and discuss the national goals of education in Kenya that teaching of biology promotes. (5marks)
2. The competence-based curriculum seeks to equip learners with competences. The CBC designs also have PCI, which have been identified as important in life and the society.
3. Explain the meaning of PCI giving examples    (2marks)
4. Describe any TWO Core Competencies for Basic Education in CBC. (4marks)
5. Differentiate between heuristic and expository approaches in teaching biology   (4marks)
6. i) Give THREE advantages models have over wall charts  (3marks)

ii) Explain two uses of aquarium in teaching biology            (2marks)

1. Explain five positive contribution of biology to human welfare. (10marks)

**QUESTION TWO**

1. Describe the function of the following:
2. Head of Department of Biology in your school.   (10marks)
3. Function of subject panels in the curriculum development (5marks)
4. As one the experienced teachers, you have been appointed as a member of textbook vetting committee or panel from your school.  State five criteria used to assess Biology teachers guide for use in secondary schools.  (5marks)

**QUESTION THREE**

1. Writing specific learning outcomes are guided by Bloom’s Taxonomy, which classifies educational learning objectives. Describe the six abilities of the cognitive domain. (12 marks)
2. Explain 4 characteristics of instructional objectives (8marks)

**QUESTION FOUR**

1. Discuss the questioning technique under the following
2. Purpose of questions   (5marks)
3. Qualities of good questions (5marks)
4. Effective questioning strategies (5marks)
5. Explain five factors a teacher should consider before constructing a test. (5marks)

**QUESTION FIVE**

1. Prepare one-week schemes for biology from a topic of your choice showing clear the parts, objectives, teaching learning activities and relevant learning resources. (10marks)
2. Biology teaching is faced with a lot of challenges. Discuss some of the challenges you are likely to face. (10 marks)