



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF HUMANITIES AND SOCIAL SCIENCE**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF  
EDUCATION (ARTS) WITH IT**

**3<sup>RD</sup> YEAR 2<sup>ND</sup> SEMESTER 2016/2017 ACADEMIC YEAR**

**MAIN CAMPUS (REGULAR)**

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**COURSE CODE: NGE 312**

**COURSE TITLE: BIOGEOGRAPHY**

**EXAM VENUE:**

**STREAM (Bed Arts)**

**DATE:**

**EXAM SESSION:**

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**TIME: 2 HOURS**

### **Instructions to students**

1. Answer question **ONE**(Compulsory) and any other **TWO** questions
2. Candidates are advised not to write on the question paper.
3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

1. a) Give a brief account of the evolution of Biogeography (10 marks)  
b) “Species population is unevenly distributed”. Discuss (10marks)  
c) Using relevant examples, discuss the effects of climate change on species concentration (10 marks)
  
2. a) Discuss the concepts of evolution and adaptation as basic processes in Biogeography (10 marks)  
b) With specific examples, explain the concept of “Island Biogeography”. (10 marks)
  
3. a) Using relevant examples, describe the biotic and abiotic components of an ecosystem (10 marks)  
b) Identify any TWO terrestrial ecosystems and clearly show how they differ from each other (10 marks)
  
4. Using well labelled diagrams, discuss any TWO biogeochemical cycles and explain how they support human life on the Earth (20 marks)
  
5. Explain latitudinal distribution patterns of biodiversity (20marks)