



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF EDUCATION, HUMANITIES AND SOCIAL SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
WITH IT

MAIN CAMPUS

COURSE CODE: NGE 312

COURSE TITLE: Biogeography

EXAM VENUE: ON-LINE

DATE:

EXAM SESSION: RE-SIT/SPECIAL

TIME:

Instructions

1. Answer Question ONE (COMPULSORY) and ANY other 2 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.

QUESTION 1

- (a) Examine the effects of species competition on ecosystem. (8 marks)
- (b) Describe various ways by which organisms avoid competition. (12 marks)
- (c) Using specific examples discuss FIVE adaptations to predation. (10 marks)

QUESTION 2

State the law of tolerance by Shelford (1903) and the law of minimum by Justus von Liebig (1840) and explain how the two laws apply in real life Biogeographical studies (20 marks)

QUESTION 3

- (a) Describe the physical limiting factors to species growth along a tropical mountain slope. (10 marks)
- (b) Mountains can lead to both speciation and extinction. Discuss. (10 marks)

QUESTION 4

Explain the differences in species richness in the Tropical forest biomes and the Temperate forest biomes (20 marks)

QUESTION 5

Discuss the likely effects of climate change on regional biodiversity. (20 marks)