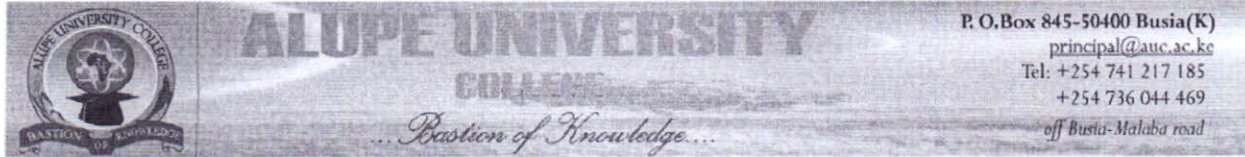


GEO 311E



OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, RESEARCH AND STUDENT AFFAIRS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER REGULAR EXAMINATION

**FOR THE DEGREE OF BACHELOR OF
EDUCATION (ARTS/BUSINESS STUDIES)**

COURSE CODE: GEO 311E

COURSE TITLE: BIOGEOGRAPHY

DATE: 28TH JANUARY, 2022

TIME: 9.00AM – 11.00AM

INSTRUCTION TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

GEO 311E: BIOGEOGRAPHY

STREAM: BED (Arts)

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

- (i) Answer Question **ONE** and any other **TWO** questions.
- (ii) Maps, sketches and diagrams should be used whenever they serve to illustrate the answer.
- (iii) Do not write on the question paper.

QUESTION ONE

- a) State barriers to a common definition of biogeography (5 Marks)
- b) Describe the concept of ecological biogeography (5 Marks)
- c) Highlight key assumptions of island biogeography (5 Marks)
- d) "Phytogeography is a better predictor of a healthy ecosystem" discuss (5 Marks)
- e) Identify factors for uneven distribution of biota on the earth surface (5 Marks)
- f) Justify the statement "the future study of biogeography should be premised on the fact that the earth is a dynamic place" (5 Marks)

QUESTION TWO

- a) Guided by natural growth conditions describe major categories of plants (10 Marks)
- b) Explain adaptive features of plants found in northern region of Kenya (10 Marks)

QUESTION THREE

- a) Describe types of interaction among organisms in a natural ecosystem (12 Marks)
- b) Explain coping mechanisms of organisms in a limited ecosystem (8 Marks)

QUESTION FOUR

- a) Describe major stages involved in primary vegetations succession (14 Marks)
- b) Highlight key characteristics of climatic climax community (6 Marks)

QUESTION FIVE

- a) Describe distribution patterns of biota on the earth surface (14 Marks)
- b) Discuss the concept of species range (6 Marks)
