



MACHAKOS UNIVERSITY

University Supplementary Examinations for 2021/2022 Academic Year

**SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL SCIENCES
SECOND YEAR SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF
BACHELOR OF ENVIRONMENTAL SCIENCE, BACHELOR OF ENVIRONMENTAL
STUDIES (ENVIRONMENTAL RESOURCE CONSERVATION) AND BACHELOR OF
ENVIRONMENTAL STUDIES (COMMUNITY DEVELOPMENT)**

ENS 241: BIODIVERSITY CONSERVATION

Date:

Time:

Instructions: Answer question ONE and TWO other questions

QUESTION ONE

- a) Describe the levels of measuring biodiversity (5 Marks)
- b) Explain the relationship between size and diversity of species (5 Marks)
- c) Explain why in certain cases preservation of natural environments is justifiable (5 Marks)
- d) Outline the characteristics of species at highest risk of climate change (5 Marks)
- e) Explain why alien plant species have become increasingly invasive in Africa (5 Marks)
- f) Explain why life is not distributed uniformly in the biosphere. (5 Marks)

QUESTION TWO

Discuss the controversy behind adoption of Genetically Modified Organisms (GMOs) in developing countries. (20 Marks)

QUESTION THREE

Highlighting the objectives of the Convention on Biological Diversity (CBD), discuss how the objectives are being enhanced in Kenya. (20 Marks)

QUESTION FOUR

Discuss the values of biodiversity that warrants its conservation.

(20 Marks)

QUESTION FIVE

Discuss the challenges to conservation of biodiversity in Kenya.

(20 marks)
