



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER

SCHOOL OF TOURISM AND NATURAL

RESOURCES MANAGEMENT

SCHOOL OF EDUCATION

COURSE CODE: GEO 3124-1

COURSE TITLE: CLIMATOLOGY

DATE: 14/12/2023

TIME: 1100-1300 HRS

INSTRUCTIONS TO CANDIDATES

ATTEMPT ALL QUESTIONS IN SECTION A, ANY THREE QUESTIONS IN SECTION B

SECTION A: COMPULSORY (20 MARKS)

1. a) Differentiate between the following terms
 - i) heat budget and albedo (2mks)
 - ii) the plane of elliptic and parallelism of axes(2mks)
 - iii) winter solstice and summer solstice(2mks)
- b) Give three circumstances under which condensation can occur(3mks)
- c) Outline three mechanisms responsible for cloud formation(3mks)
- d) Outline the importance of carbon iv oxide and water wapour in the atmosphere (4mks)
- e) Explain two causes of micro climate(4mks)

SECTION B: (CHOOSE ANY THREE)

2. Account for the causes and consequences of ozone layer depletion (10 mks)
- 3 Discuss various causes of climate change citing its impact on human activities in world (10 mks)
3. Discuss the Bergeron-findeisen theory of rainfall formation (10 mks)
4. Using suitable diagrams, give a detailed account of observed global circulation of the atmosphere (10)mks
5. Examine the causes of climatic seasons(10 mks)

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