

The National University of Lesotho

B.A. Examinations

GES 4300 : Environmental Management Techniques

May, 2023

Marks: 100

2 Hours

Instructions:

- Answer any **Four (4)** questions.
 - Where applicable illustrate your answer with equations and diagrams.
 - Each question carries 25 marks.
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Question 1

With the help of a well-labelled diagram, describe the fate of solar radiation directed towards the earth's surface. [25]

Question 2

About 90% of the energy used by the world comes from fossil fuels. Debate the pros and cons of continuing to use the fossil fuels. [25]

Question 3

Discuss some of the changes you would make to the public transport system of Lesotho to make it more fuel efficient and attractive to individuals that use private cars. [25]

Question 4

The world's terrestrial biomes show a distribution that corresponds to the earth's latitudes. Discuss. [25]

Question 5

- (a) discuss why less energy is passed on in a food web (9)
- (b) what exactly happens to this energy? (8)
- (c) Discuss why this energy may not be recovered by the earth-atmosphere system (8) [25]

Question 6

Discuss how any three renewable forms of energy are generated and explain why they have not gained the popularity they deserve. [25]