UNIVERSITY OF EMBU

2019/ 2020 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURAL RESOURCE MANAGEMENT

ALM 608: LAND DEGRADATION AND REHABILITATION

DATE: OCTOBER 22, 2020   TIME: 2.00 -5.00PM

INSTRUCTIONS:

Answer ANY FOUR Questions.

QUESTION ONE (25 MARKS)

Explain the **major** causes of land degradation in Sub-Saharan Africa.   (25 marks)

QUESTION TWO (25 MARKS)

A degraded watershed in Mbeere Sub-country shows evidence of extensive soil erosion and sedimentation. Explain how the Revised Universal Soil Loss Equation (RUSLE) can be used to model soil erosion and sediment yield from the watershed.   (25 marks)

QUESTION THREE (25 MARKS)

Discuss how the concept of land degradation neutrality (LDN) can be achieved under smallholder farming systems in Kenya.   (25 marks)

QUESTION FOUR (25 MARKS)

Discuss the major forms of physical and chemical degradation that are prevalent in the tropical highlands of East Africa.   (25 marks)

QUESTION FIVE (25 MARKS)

Discuss the role of remote sensing and GIS in modelling land degradation   (25 marks)

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