

MASENO UNIVERSITY **UNIVERSITY EXAMINATIONS 2016/2017**

THIRD YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE AND PLANT NUTRITION, AGRONOMY AND HORTICULTURE WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

ASS 304 AND AAG 308: SOIL SURVEY, CLASSIFICATION AND LAND **EVALUATION**

Date: 9th June, 2017

Time: 12.00 - 3.00pm

INSTRUCTIONS:

Answer ALL Questions in section A and any TWO in section B.

ISO 9001:2008 CERTIFIED (C)



SECTION A: Answer ALL questions in this section

	QUESTI a) b) c) d)	ON 1: Explain the following: Soil profile Soil survey Soil classification Land evaluation	[5 marks]
	е)	Soil mapping unit	
5-	QUESTI a) b) c) d) e)	ON 2: Distinguish between the following: Master horizon and Diagnostic horizon Land capability and land suitability classifications Epipedon and endopedon AE and 2C horizon designations Bs and B/E horizon designations	[10 marks]

QUESTION 3: Outline the entries in FAO-UNESCO soil map of the world legend.

[15 marks]

SECTION B: Answer ANY TWO questions in this section

QUESTION 4:

[20 marks]

(a) Outline five (5) objectives of the FAO – UNESCO soil legend.

(b) Discuss the fundamental principles of the FAO – UNESCO soil classification system

QUESTION 5:

[20 marks]

Discuss the procedure of soil profile description and the parameters involved.

QUESTION 6:

[20 marks]

(a) Discuss the sources of information required in land evaluation.

(b) Discuss the main objectives of land evaluation that must be addressed in any land evaluation plan