

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR FOURTH YEAR FIRST SEMESTER/ THIRD YEAR FIRST SEMESTER

SCHOOL OF TOURISM AND NATURAL **RESOURCE MANAGEMENT BACHELOR OF SCIENCE IN FORSETRY/ BACHELOR OF SCIENCE IN ECOSYSTEM** MANAGEMENT

COURSE CODE: FEM 3120/FOR 410 **COURSE TITLE: SOIL AND WATER CONSERVATION**

DATE: 14TH DECEMBER 2018

TIME: 8.30 -10.30AM

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and any other THREE in section B.

This paper consists of 2 printed pages. Please turn over.

SECTION A. ANSWER ALL THE QUESTIONS (25 MARKS)

1. a) Explain the terms as used in wind erosion	(2 marks)	
(i) Saltation		
(ii) Abrasion		
b) Describe briefly the processes involved in soil erosion	(3 marks)	
2. a) Define soil erosion	(2 marks)	
b) Explain the overall objectives of soil and water conservation	(3 marks)	
3. a) Explain conditions that influence assessment of wind erosior	n (2 marks)	
b) Explain briefly factors influencing soil water degradation	(4 marks)	
4. a) What do you understand by the term erosivity	(1 mark)	
b) Giving examples, describe agronomic measures for conservation on farm lands	tion of soils (2 marks)	
5. a) Explain the process of soil erosion	(3 marks)	
b) Describe how conservation agriculture can helps in controlline erosion	ng soil (3 marks)	
SECTION B. ANSWER ANY THREE QUESTIONS (45 MARKS)		

6. a) Describe how forests helps to conserve soil and water	(7 marks)
b) Describe factors influencing soil water degradation	(8 marks)
7. Discuss the factors considered in assessment and modeling of based on Universal Soil Loss Equation (USLE)	soil erosion (15 marks)
8. Discuss water conservation measures/strategies in arid and se for trees or crops establishment	emi-arid lands (15 marks)
9. Discuss the factors affecting soil erosion	(15 marks)
10. Discuss the appropriate approaches used in conservation of s minimize soil erosion effects in agricultural fields	soils so as to (15 marks)

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