## UNIVERSITY OF KABIANGA

## UNIVERSITY EXAMINATIONS THIRD YEAR FIRST SEMESTER 2016/2017 AFR 313: MULTIPURPOSE TREES IN AGROFORESTRY

## INSTRUCTIONS TO CANDIDATES

## SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION (30 MARKS)

1. Explain what you understand by the following concepts as applied in agroforestry stu	ıdies
i) Multipurpose trees (3	3 marks)
ii) Evaluation of Multipurpose trees (3	3 marks)
2. Explain the main reasons for growing multipurpose trees and Shrubs in agroforestry s	system
	6 marks)
3. Giving examples, Explain how trees and shrubs can be multipurpose (6	6 marks)
4. The following terms are used in the selection of multipurpose trees in an agroforestry s	system.
Explain why they are considered important in the selection process.	
i) Site matching (2	2 marks)
ii) Environmental matching (2	2 marks)
iii) Provenance (2	2 marks)
5. Highlight the major negative tree-crop interactions in an agroforestry system and expla	ain how
each can be corrected.	6 marks)
SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)	
6. a) Discuss the different phases involved in the evaluation of Multipurpose trees for	2 marks)
(12) Discuss the different phases involved in the evaluation of Multipurpose trees for agroforestry systems	2 marks) 3 marks)
(12) Discuss the different phases involved in the evaluation of Multipurpose trees for agroforestry systems	3 marks)
<ul> <li>(a) Discuss the different phases involved in the evaluation of Multipurpose trees for agroforestry systems</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(19)</li> <li>(10)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(10)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(19)</li> <li>(10)</li> <li>(10)&lt;</li></ul>	3 marks)
6. a) Discuss the different phases involved in the evaluation of Multipurpose trees for agroforestry systems  (12 b) Discuss the general criteria for selecting Multipurpose trees and Shrubs  (8 7. Describe the selection criteria of multipurpose trees suite' the following agrofore systems	3 marks)
6. a) Discuss the different phases involved in the evaluation of Multipurpose trees for agroforestry systems  (12 b) Discuss the general criteria for selecting Multipurpose trees and Shrubs  (8 7. Describe the selection criteria of multipurpose trees suite' the following agrofore systems  (8 a) Discuss the different phases involved in the evaluation of Multipurpose trees for agroforestry systems	3 marks)
6. a) Discuss the different phases involved in the evaluation of Multipurpose trees for agroforestry systems  (12 b) Discuss the general criteria for selecting Multipurpose trees and Shrubs  (8 7. Describe the selection criteria of multipurpose trees suite' the following agrofore systems  (8 i) Alley cropping  (9 ii) Soil protection and rehabilitation	3 marks) estry 4 marks)
6. a) Discuss the different phases involved in the evaluation of Multipurpose trees for agroforestry systems  (12 b) Discuss the general criteria for selecting Multipurpose trees and Shrubs  (8 7. Describe the selection criteria of multipurpose trees suite' the following agrofore vestems  (4) ii) Soil protection and rehabilitation  iii) Decoration and enjoyment  (4)  Windbreaks	3 marks) estry 4 marks) 4 marks)
6. a) Discuss the different phases involved in the evaluation of Multipurpose trees for agroforestry systems  (12 b) Discuss the general criteria for selecting Multipurpose trees and Shrubs  (8  7. Describe the selection criteria of multipurpose trees suita' the following agrofore vestems  (4)  (5)  (6)  (6)  (6)  (7)  Windbreaks	3 marks) estry 4 marks) 4 marks) 4 marks)
6. a) Discuss the different phases involved in the evaluation of Multipurpose trees for agroforestry systems  (12 b) Discuss the general criteria for selecting Multipurpose trees and Shrubs  (8  7. Describe the selection criteria of multipurpose trees suite' the following agrofore vestems  (4) ii) Soil protection and rehabilitation  (4) iii) Decoration and enjoyment  (4) iii) Windbreaks	3 marks) estry 4 marks) 4 marks) 4 marks) 4 marks) 4 marks)