## University Examinations 2015/2016

<u>SECOND</u> YEAR <u>FIRST SEMESTER</u> EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN

AGROFORESTRY AND RURAL DEVELOPMENT

## <u>AFR 310</u>: AGROFORESTRY SYSTEMS, PRACTICES AND TECHNOLOGIES I TIME: 3 HOURS

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INSTRUCTIONS TO CANDIDATES: Answer ALL questions in Section questions in Section B	
questions in Section B	n A and any TWO
3100	
Section A: Answer all questions (30 Marks)	
Q1. (i) What is farm forestry?	or office
	(2 marks)
(ii) What is the difference between farm forestry and agroforestry?	(2 marks)
(iii) Explain the term "Tree Domestication" as used in agroforestry	(2 marks)
Q2. Describe the major groups of components and their spatial arrangements in the formattices:	any of grown Trace
practices:	
(i) Improved fallows	
(ii) Protein banks	(2 marks)
(iii) Aquaforestry	(2 marks)
Q3. Explain the functions of the cultivation phase and that of the fallow phase in s marks)	(2 marks)
	S varivation (0
Q4. Compare and contrast the taungya system and the shifting cultivation system.	
Q5. Highlight the main areas of failure of the all	(6 marks)
Q5. Highlight the main areas of failure of the allev cropping technology where its p	erformance has not
Section B: Answer any two questions (40 Marks)	(6 marks)
©6. Discuss the potentials and challenges of biomass transfer technology in Kenya	(0.0
Q7. Discuss the ecological and economic advantages of the control	(20 marks)
Q7. Discuss the ecological and economic advantages of coffee based agroforestry syste	ms (20 marks)
Q8. Describe appropriate agroforestry systems for the following farming systems in Ker	nya:
(i) The subsistence food crops system	
The cashew-coconut system	(10 marks)
The state of the s	(10 marks)
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