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## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

# University Examinations 2012/2013

**END OF SEMESTER EXAMINATION FOR THE DEGREE IN BACHELOR OF SCIENCE IN LAND RESOURCE PLANNING AND MANAGEMENT**

**ALP 2302:** **CONSERVATION AGRICULTURE AND DRYLAND FARMING**

**DATE: AUGUST 2012 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO**

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**QUESTION ONE**

(a) Define the following: (4 mks)

1. Conservation agriculture
2. Dry land farming

(b) Briefly discuss the problems a farmer practicing dry land farming in Kenya is likely to face. (6 mks)

(c) What are the advantages of conservation agriculture over green revolution in Africa? (10 mks)

(d) Explain how conservation agriculture contributes to environmental sustainability. (10 mks)

**QUESTION TWO**

Discuss how agroforestry can be used to improve productivity in dry land farming. (20 mks)

**QUESTION THREE**

Discuss principles of conservation agriculture and how applicable they are to small scale farmers in Kenya. (20 mks)

**QUESTION FOUR**

What are the challenges of conservation agriculture and how to overcome them? (20 mks)