

EMBU UNIVERSITY COLLEGE (A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

TRIMESTER EXAMINATIONS 2013/2014

FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURAL RESOURCE MANAGEMENT

ART624: INTEGRATED SYSTEMS IN ANIMAL PRODUCTION

DATE: AUGUST 5, 2014

TIME: 5.00 - 8.00PM

INSTRUCTIONS:

Answer ANY FOUR Questions.

QUESTION ONE

a)	Explain the concepts of Integrated Farming Systems	(6 marks)
b)	Describe the main features of Integrated Farming Systems	(4 marks)
c)	Explain the reasons for integrated farming systems in animal production	(6 marks)
d)	Describe the various components of integrated systems in animal production	(9 marks)

QUESTION TWO

- a) Discuss briefly three major factors that determine the choice of an integrated farming system (15 marks)
- b) Explain the basis for households' decision making (5 marks)
- c) Describe the role of biophysical factors in selection of Integrated Farming Systems in rainfed areas (5 marks)

QUESTION THREE

- a) State the four forms of integration (4 marks)
- b) Describe the roles of livestock in integrated farming system (6 marks)
- c) Give the strategies that can be used by pastoralist and conservation groups to co-exist in integrated wildlife and pastoralism/ranching (6 marks)
- d) Discuss the status and trends of natural resources at the livestock wildlife interface in Africa (9 marks)

QUESTION FOUR

- a) Explain the benefits of two (2) different types of integrated livestock livestock, management system in high potential areas (7 marks)
- b) Outline the reasons for non-adoption of certain practices related to small ruminant rearing in different agro-climatic zones (8 marks)
- c) Discuss how integrated rice, fish and livestock in Asia has been successful (10 marks)

QUESTION FIVE

- a) Illustrate using a diagram how different resources flow in mixed crop-livestock systems (6 marks)
- b) State the direct and indirect benefits of holistic management of integrated livestock in conservation agriculture (8 marks)

- c) Explain how different kinds of nutrient losses can occur during crop cultivation and postharvest (5 marks)
- d) Describe the activities that prevent or reduce nutrient losses (6 marks)

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