



1ST SEM. 2018/2019

UNIVERSITY OF ESWATINI

FINAL EXAMINATION PAPER

PROGRAMME:

B.Sc. ANIMAL SCIENCE AND B.Sc.

ANIMAL SCIENCE (DAIRY OPTION)

YEAR III

COURSE CODE:

ASC305

TITLE OF PAPER:

RESEARCH METHODS

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

ANSWER ANY FOUR (4) QUESTIONS.

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QUESTION 1

Describe the following terms:

Research	(5 Marks)
Research design	(5 Marks)
Experimental unit	(5 Marks)
Population	(5 Marks)
Sampling	(5 Marks)
	(25 Marks)
	Research design Experimental unit Population

QUESTION 2

Discuss the characteristics of a well-designed experiment.

(25 Marks)

QUESTION 3

Write short notes on the following:

	Scientific method of doing research	(10 Marks)
b.	Choice of research area and sources of research topics	(10 Marks)
c.	Disadvantages of stratified random sampling.	(5 Marks)
		(25 Marks)

QUESTION 4

Suppose that you have four (4) different diets which you want to compare. The diets are labelled as Diet A, Diet B, Diet C and Diet D. You are interested in how the diets affect milk production in dairy cows. You have sixteen (16) dairy cows, which are homogenous, available for the experiment.

a.	Which design is most appropriate to conduct the study? Explain your	
	answer and further state the advantages and limitations of your design.	(13 Marks)
b.	Lay out the experimental design.	(5 Marks)
c.	Outline the different methods that you can use to assign the dairy	()
	cows to the four (4) treatment groups.	(7 Marks)
		(25 Marks)

QUESTION 5

The types of research are classified into three broad categories. Discuss them. (25 Marks)