



UNIVERSITY OF SWAZILAND

2ND SEM.2014/2015

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: B.SC. ANIMAL SCIENCE YEAR 2 (DAIRY OPTION)

COURSE CODE: ASD 201

TITLE OF PAPER: ORIENTATION TO DAIRY SCIENCE

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ANY FOUR QUESTIONS

**THIS PAPER SHOULD NOT BE OPENED UNTIL THE CHIEF INVIGILATOR HAS
GRANTED PERMISSION.**

QUESTION 1

- a) Write short notes on TWO methods of pregnancy diagnosis. **(15 Marks)**
- b) After first calving, a dairy cow at any one time will be in important periods of its life in the farm. Identify these important periods and explain only one. **(10 Marks)**

QUESTION 2

- a) State the main aspect that determines the success of any milk preservation method and briefly explain how this can be achieved. **(10 Marks)**
- b) Briefly discuss how bulls are selected and used for artificial insemination. **(15 Marks)**

QUESTION 3

- a) Explain the role of standardization of milk and the procedures that have to be followed to achieve it. **(10 Marks)**
- b) Define heat stress and discuss its impact on high yielding dairy cattle. **(15 Marks)**

QUESTION 4

- a) Outline the goals of dairy cattle breeding and list aspects that have to be considered. **(15 Marks)**
- b) List the common circumstances that require a farmer to consider the provision of appropriate welfare to animals. **(10 Marks)**

QUESTION 5

- a) What care must be given for the following:
 - I. pregnant animals that are approaching their calving dates **(10 Marks)**
 - II. Calves soon after birth. **(10 Marks)**
- b) Describe milk fever and how it can be prevented. **(5 Marks)**