

1ST SEM. 2013/2014

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SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: BSc. IN ANIMAL SCIENCE III: BSc. IN ANIMAL SCIENCE(DAIRY OPTION) III

COURSE CODE: AS 307

TITLE OF PAPER: REPRODUCTIVE PHYSIOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR(4) QUESTIONS

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- a) Describe how bull semen is evaluated, also explain why is semen evaluation an important tool in farm animal reproduction.
(15 Marks)
- b) Discuss thermoregulation in the testicle. (10 Marks)

QUESTION 2

- a) Discuss the different methods of pregnancy diagnosis in cattle. Which method is commonly used and why?
(15 Marks)
- b) Discuss fertilisation and the mechanism (s) that prevent polyspermy.
(10 Marks)

QUESTION 3

Parturition in the cow is divided into 3 stages. Briefly describe the events that occur prior to onset of parturition in the cow, the 3 stages of parturition and the hormones involved.
(25 Marks)

QUESTION 4

Discuss how the Hypothalamus, Anterior Pituitary gland, and the gonads communicate in controlling reproduction in both the cow and the bull.
(25 Marks)

QUESTION 5

Artificial insemination is not commonly practised in commercial ranches in both developed and developing countries. Discuss why is this the case.
(25 Marks)