

NATIONAL UNIVERSITY OF LESOTHO
FACULTY OF AGRICULTURE
DEPARTMENT OF ANIMAL SCIENCE
BACHELOR OF SCIENCE IN ANIMAL SCIENCE
ANS3508- REPRODUCTIVE PHYSIOLOGY
May 2023: MARKS: 100 TIME: 3 HOURS

Instructions: Answer all questions

Question One

With the aid of the diagram discuss hormonal regulation (negative feedback mechanism) for gonadotropins (FSH and LH). 10 marks

Question Two

Discuss the functions of the scrotum and epididymis in male reproductive system. 10 marks

Question Three

Discuss the anatomy of the penis 10 marks

Question Four

Mention three layers of the uterus and discuss its functions in female reproductive system 10 marks

Question Five

Discuss the reproductive events at stage **four** of the estrus cycle in females. 4 marks

Question Six

Mention five basic steps in follicle development and clearly discuss the process of follicle development 10 marks

Question Seven

Estrus synchronization is one of the commonly used techniques in farm animal breeding:

- a) Discuss the significance of this technique 4 marks
- b) Discuss the use of prostaglandin as one of the estrus synchronization methods 6 marks

Question Eight

Discuss the changes an ovum undergoes before ovulation. 6 marks

Question Nine

A farmer is suspecting that his cow might be having the ovarian cyst and he sends some milk samples to the lab for analysis so as to confirm the type of cyst. The results from the lab revealed higher level of estrogen:

- a) Using this information what type of the cyst is the cow having? Justify your answer
6 marks
- b) How will you advice the farmer as a treatment for this cyst.
4 marks

Question Ten

Discuss the hormonal changes that control parturition. 10 marks

Question Eleven

Discuss uterine involution in female animals 5 marks

Question Twelve

Discuss prolapsed uterus as one of the common parturition problems in farm animals and indicate clearly how to deal with this problem 5 marks