THE NATIONAL UNIVERSITY OF LESOTHO FACULTY OF AGRICULTURE

DEPARTMENT OF ANIMAL SCIENCE

B.Sc. AGRICULTURE (ANIMAL SCIENCE)

ANS 3506: EQUINE PRODUCTION AND MANAGEMENT

FIRST SEMESTER FINAL EXAMINATION

JANUARY 2024 MARKS: 100 TIME: 3 HOURS

INSTRUCTIONS:

- 1. Answer all the questions
- 2. Number your answers correctly
- **3.** Begin every question on a new page

Question 1

(a	Define the following terms as used in Equine Production and Management:	
	(i) Colt	[2]
	(ii) Weanling	[2]
	(iii) Gelding	[2]
(b	a) As an Animal Scientist, the Department of Livestock Services has requested yo	ou to
	draft a document that will assist and direct horse owners in appreciating horses.	[10]
(c	e) Briefly discuss the effects brought by domestication of equines by humans.	[4]
Ques	tion 2	
(a	Explain the importance of the following factors that are used when selecting a hor	se:
	(i) Conformation	[3]
	(ii) Soundness	[3]
(b) Write short notes on the following:	
	(i) Cold blooded horses	[4]
	(ii) Light horses	[4]
(c	A farmer wants to perform different management practices including; administration of medicine, hoof trimming and applying tick grease around hind. Which restraint method(s) is/are suitable to carry out these practices and why?	
Ques	tion 3	
(a	Briefly discuss the digestion of roughages in the horse's stomach.	[7]
(b	During community outreach you noticed a stallion living in a confined space being supplied with feeds <i>ad libitum</i> , briefly outline the possible effects that coul caused by that.	

(c) As an animal scientist you are asked to advice the horse producer on feeding strategy on his horse during the following gestation periods:

(ii) Last trimester [5]

Question 4

- (a) A farmer bought a stallion for breeding purpose, however during mating the farmer noticed a stallion's semen mixed with urine. Clearly indicate the cause of this problem.[3]
- (b) Discuss the physiology and anatomy of the following male reproductive parts:
 - (i) Tunica albuginea [4]
 - (ii) Tunica vaginalis [3]
- (c) During foaling, the horse producer discovered that the uterus and foetal membranes have been pulled out through the vagina. Discuss the cause of this situation. [5]
- (d) As the horse breeder, you notice that your mare is about to give birth in few hours.

 Briefly narrate the safety measures to follow for safe delivery of the foal.

 [5]

Question 5

(a) The Farm Manager asked you to provide a procedure and to assess the body condition of the horse pictured in Figure 1. [10]



Figure 1: A horse

(b) Explain the importance of the following management practi	ces in equines:
(i) Grooming	[4]
(ii) Hoof trimming	[3]
(iii) Castration	[3]