



**UNIVERSITY OF SWAZILAND**  
**FINAL EXAMINATION PAPER**

**PROGRAMME: DIP IN AGRIC 3, DIP IN AGRIC EDUC 3**

**COURSE CODE: LUM 304**

**TITLE OF PAPER: DRAUGHT ANIMAL IMPLEMENTS**

**TIME ALLOWED: TWO (2) HOURS**

**SPECIAL MATERIAL REQUIRED: NONE**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY TWO  
OTHER QUESTIONS.**

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GRANTED BY THE CHIEF INVIGILATOR**

**SECTION I: COMPULSORY QUESTION**

**QUESTION 1**

- (a) To get the most out of draught animals, harnessing is of paramount importance. Briefly discuss **THREE** types of harnesses.  
(15 Marks)
- (b) Briefly discuss the adjustments normally made on animal-drawn ploughs (emphasising on their effects).  
(10 Marks)
- (c) Before introducing animal traction to a rural community, what factors should be considered?  
(15 Marks)

**SECTION II: ANSWER TWO QUESTIONS FROM THIS SECTION**

**QUESTION 2**

The success or failure of animal draught can be attributed to health and feed management. Discuss this statement.  
(30 Marks)

**QUESTION 3**

- (a) Discuss the role of animal traction in comparison to tractors on farming on Swazi National Land (SNL).  
(15 Marks)
- (b) Describe the training programme for oxen before they can be efficiently used in farm operations.  
(15 Marks)

**QUESTION 4**

- (a) Draw a picture of a bull showing the girth and length measurements. Using the diagram, explain the procedure to determine the weight of the bull.  
(12 Marks)
- (b) Briefly discuss **THREE** common diseases a farmer may encounter among his/her draught animals. Suggest some "First Aid" techniques to help overcome the diseases.  
(18 Marks)