***END OF TERM I 2018 EXAM***

***S.3 AGRICULTURE***

***TIME : 2 HOURS 30 MINUTES***

***INSTRUCTIONS***

* *Answer* ***ALL*** *questions in section A*
* *Choose any* ***FOUR*** *questions from section B selecting at least one question from each part.*

**SECTION A**

1. (a) The nutrient that could delay crop maturity when applied in excess is;
2. Potassium
3. Phosphorus
4. Magnesium
5. Nitrogen

(b) What name is given to a post on the barbed wire fence that prevents sagging of wires?

 A. Straines

 B. Standard post

C. Strut post

D. Dropper post

(c) Which of the following bacteria is responsible for conversion of ammonia to nitrates in the soil?

A. Nitrosomonas

 B. Nitrobacter

 C. Azotobacter

 D. Pseudomonas

 (d) The hormone responsible for milk led down is known as;

 A. oxytocin

 B. adrenaline

 C. testosterone

 D. progesterone

1. State three ways of ensuring high viability of seeds for planting. *(03 marks)*

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1. Mention four characteristics of a good fertilizer.  *(04 marks)*

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1. (a) State four uses of a crush on the farm.  *(04 marks)*

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(b) State the disadvantages of using a crush in vector control. *(03 marks)*

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1. (a) State the importance of a good soil structure in crop production. *(04 marks)*

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(b) Mention four ways how soil fertility can be lost.  *(02 marks)*

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**SECTION B**

*This sections consists of three parts*

*Choose at least four questions attempting one question from each part.*

**PART I : CROP PRODUCTION**

1. (a) Explain the factors affecting the quality of farm yard manure. *(10 marks)*

(b) Give the advantages and disadvantages of using organic farm yard manure.

*(10 marks)*

1. (a) State the characteristics of fertile soil.  *(08 marks)*

(b) Explain the factors that affect the soil fertility.  *(12 marks)*

1. (a) What are the dangers of soil erosion on crop land?  *(10 marks)*

(b) How can the dangers of soil erosion be overcome? *(10 marks)*

**PART II : ANIMAL PRODUCTION**

1. (a) State the role played by livestock in Uganda today. *(10 marks)*

(b) Explain the problems facing the livestock industry in Uganda. *(10 marks)*

1. (a) State the reasons for castrating male animals on the farm. *(08 marks)*

(b) Describe the procedure of castrating using a Burdizzo method. *(12 marks)*

1. (a) Explain the factors to be considered when establishing a beef herd. *(10 marks)*

(b) Outline the characteristics of a good dairy breed.  *(10 marks)*

**PART III : FARM STRUCTURES**

1. (a) List four types of fences commonly used on farms.  *(04 marks)*

(b) What factors influence the choice of fence materials in use? *(04 marks)*

(c) What is the importance of fencing on the farm?  *(12 marks)*

1. (a) Describe the various components of a cattle dip.  *(12 marks)*

(b) Mention the advantages and disadvantages of using a cattle dip in tick

control. *(08 marks)*

1. (a) Explain the importance of farm buildings.  *(12 marks)*

(b) State the qualities of a good storage building.  *(08 marks)*

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