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**UNIVERSITY OF SWAZILAND**

**2<sup>nd</sup> SEM. 2012/2013**

**FINAL EXAMINATION PAPER**

**PROGRAMME** : **B. Sc. IN AGRICULTURAL EDUCATION YEAR III ,  
B. Sc. IN ANIMAL SCIENCE YEAR III AND B. Sc.  
IN ANIMAL SCIENCE (Dairy)YEAR III**

**COURSE CODE** : **AS 302**

**TITLE OF PAPER** : **ANIMAL HEALTH**

**TIME ALLOWED** : **TWO HOURS**

**INSTRUCTIONS** : **ANSWER ANY FOUR QUESTIONS**

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GRANTED BY THE CHIEF INVIGILATOR**

**QUESTION ONE**

Name the following:

- (a) Two types of bacterial toxins [2 marks]
- (b) Three types of immunity [3 marks]
- (c) Three types of hard ticks [3 marks]
- (d) Five types of bacteria according to their morphology [5 marks]
- (e) Four sub-types of clinical diseases [4 marks]
- (f) Three groups of tsetse flies [3 marks]
- (g) Define: Zoonotic disease [2 marks]
- (h) Describe how brucellosis is transmitted among cattle in Southern Africa [3 marks]

**QUESTION TWO**

Compare between:

- (a) Toxaemia and Parasitaemia [5 marks]
- (b) ID50 and LD50 [5 marks]
- (c) Advantages of live and dead vaccines [5 marks]
- (d) Breech and Wound Strike [5 marks]
- (e) Scheduled and Non-Scheduled disease [5 marks]

**QUESTION THREE**

Indicate the harmful effects of the following:

- (a) Mange Mites [5 marks]
- (b) Soft ticks [5 marks]
- (c) Anaplasma [5 marks]
- (d) Ascaris [5 marks]
- (e) Viruses [5 marks]

**QUESTION FOUR**

(a) Describe the general routine measures to be applied to control the occurrence of the following diseases:

- (i) Liver fluke [5 marks]
- (ii) Bovine Babesiosis [5 marks]
- (iii) Marek's Disease [5 marks]

(b) Draw and label the life cycle of the following:

- (i) Trypanosomes [5 marks]
- (ii) *Echinococcus granulosus* [5 marks]

**QUESTION FIVE**

(a) List the clinical signs of the following diseases:

(i) Virus Pneumonia of pigs

[5marks]

(ii) Fowl pox

[5marks]

(iii) Rabies

[5marks]

(iv) Anthrax

[5marks]

(b) Draw and label the life cycle of the three host ticks

[5marks]