**JOMO KENYATTAUNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATION 2017/2018**

**THIRD YEAR FOR THE DEGREE OF BACHELOR OF SCIENCE IN ANIMAL HEALTH,**

**PRODUCTION AND PROCESSING**

**AAP 2308: THERIOGENOLOGY**

**DATE: JANUARY 2018 TIME:2 HOURS**

**Instructions: Answer ALL questions in section A and ANY TWO questions in section B**

**SECTION A (30 MARKS)**

1. Define the following productive terminologies
2. Theriogenology
3. Andrology
4. Gynaecology
5. Obstetrics
6. Dystocia (10 marks)
7. What are the four reproductive indices you would consider to advice a farmer on when doing herd health in a farm rearing shoats in large scale? (4 marks)
8. List any **THREE** primary endocrine organs responsible for estrus cycle in bovines indicating the hormones they produce. (6 marks)
9. List 10 principles used in mastitis control in bovine herds (10 marks)

**SECTION B (40 MARKS)**

1. Recognize the three clinical stages of parturient paresis. Discuss the clinical signs and treatment of the disease (20 marks)
2. Explain the role of the following hormones in reproduction
3. GnRH (4 marks)
4. LH (7 marks)
5. FSH (7 marks)
6. Progesterone (2 marks)
7. i) Define Dystocia (4 marks)

ii) Describe the possible causes of dystocia that can be encountered in bovines (16 marks)