



*(Knowledge for Development)*

**KIBABII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**  
**2020/2021 ACADEMIC YEAR**

**THIRD/SECOND YEAR 2ND SEMESTER**  
**MAIN EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE**  
**EDUCATION AND EXTENSION, BACHELOR OF EDUCATION**  
**SCIENCE**

**COURSE CODE:** AAP 222  
**COURSE TITLE:** PRINCIPLES OF ANIMAL HUSBANDRY &  
PHYSIOLOGY

**DATE:** 1<sup>ST</sup> OCTOBER 2021

**TIME:** 9 – 11 AM

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**INSTRUCTIONS TO CANDIDATES**

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

## QUESTION ONE

- (a) i. Define production system. (3mks)  
ii. Name 3 production systems in dairy production. (3mks)
  - (b) Enumerate forms of heat transfer in animals (6mks)
  - (c) List three environment factors that affect livestock production (3mks)
  - (d) Outline the importance of honey bees in Kenya (6mks)
  - (e) Explain the meaning of steaming up as a management practice in dairy cows (2mks)
  - (f) List 7 parts of a zero grazing unit (7mks)
2. Discuss the constraints affecting beef industry in Kenya (20mks)
3. Discuss the importance of livestock in Kenya (20mks)
4. Discuss adaptive mechanism to environmental stress in livestock under the following conditions
- a) Cold environment (10mks)
  - b) Hot environment (10mks)
5. Discuss physiological changes that occur in lactating cows in;
- a) Early lactation stage (10mks)
  - b) Mid/late lactation stage (10mks)