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*(Knowledge for Development)*

**KIBABII UNIVERSITY**

**UNIVERSITY EXAMINATIONS  
2016/17 ACADEMIC YEAR**

**FIRST YEAR SECOND SEMESTER  
SPECIAL/SUPPLEMENTARY EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF EDUCATION (SCIENCE)**

**COURSE CODE: SZL 412  
COURSE TITLE: ETHOLOGY**


**DATE: 20/09/2017**

**TIME: 3:00 -5:00 p.m.**

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**INSTRUCTIONS TO CANDIDATES**

Answer question **ONE [1]** and **ANY** other **TWO [2]** questions  
TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over 

KIBUCO observes ZERO tolerance to examination cheating

*[Handwritten signature]*

1. [i] Define the following terms: [a] Territoriality [b] Photoperiodism [c] Klinotaxis [6mks]  
[ii] Distinguish between **mechanoreceptor** and **thermoreception** [4mks]  
[iii] Explain the role of **pheromones** in **invertebrates** [4mks]  
[iv] How does stimuli reception of animals lead to animal behaviour? [4mks]  
[v] Outline the pinnacles of social animals identified by Wilson [1975] [6mks]  
[vi] Illustrate the methods for studying animal behavior. [6mks]
2. [a] Explain five importance of **semiochemicals** in social animals. [10mks]  
[b] Describe five functions of **agonistic behaviour** in animals. [10mks]
3. [i] Explain **five causes** of **dispersion** of animals in an ecosystem. [10mks]  
[ii] Describe the **animal behaviours** that are initiated by **releaser pheromones** [10mks]
4. [a] Write short notes on: [i] Tropicaxis [ii]Klinotaxis [iii] Chemoreception[15mks]  
[b] Explain the essence of **photoreception** to the success of some species of animals.  
[5mks]
5. Discuss the **importance of living in groups** in social animals. [20mks]