



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURAL BIOTECHNOLOGY, AND AGRICULTURAL ECONOMICS

COURSE CODE:

SZL 124

COURSE TITLE:

BASIC ZOOLOGY

DATE:

Friday, 10th August 2018. **TIME:** 9:00 – 11:00 a.m.

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



XIBU observes ZERO tolerance to examination cheating

- 1. a) Outline the steps followed in the scientific method of zoological studies. (5 marks)
 - b) Define the following terminologies:
 - i) Biosphere
 - ii) Community
 - iii) Saprophitic heterotrophs
 - iv) Amniotes
 - v) Alternation of generations (5 marks)
 - e) Explain how variation leads to the formation of a new species (5 marks)
 - d) Name the disease associated with the following organisms:
 - i) Plasmodium
 - ii) Leishmania
 - iii) Trypanosoma
 - iv) Schstosoma
 - v) Entamoeba histolytica (5 marks)
 - e) State how the following function is accomplished:
 - i) Locomotion in Physalia
 - ii) Feeding in Hirudinea
 - iii) Protection in Chitons
 - iv) Defense in ciliates
 - v) Feeding in cestodes
 - f) Outline the lines of evidence of evolution. (5 marks)
 - 2. Discuss the economic importance of arthropods, giving specific examples. (20 marks)
- 3. Give a comparative account of the life cycles of Obelia (Hydrozoa, Calyptoblastea) and Aurelia (Scyphozoa, Semaeostomeae). (20 marks)
 - 4. Discuss advances of reptiles over amphibians. (20 marks)
 - 5. Account for the success of flight in class aves. (20 marks)