

(Knowledge for Development)

KIBABII UNIVERSITY UNIVERSITY EXAMINATIONS 2015/2016 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF EDUCATION (SCIENCE) & BACHELOR OF AGRICULTURE EDUCATION

COURSE CODE: ESM 113 & ESM 112

COURSE TITLE: SURVEY OF ANIMAL KINGDOM &

FUNDAMENTALS OF BIOLOGY 11

DATE: 2^{nd} May 2016 **TIME:** 2:00 - 4:00 p.m.

INSTRUCTIONS TO CANDIDATES

Answer question **ONE** [1] and **ANY** other TWO [2] questions Question 1 carries 30 marks while the rest contain 20 marks each

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBUCO observes ZERO tolerance to examination cheating

- 1. (a) Explain **two** types of **semiochemicals** utilized by arthropods [4mks]
 - (b) State **three** roles of a **clitellum** [3mks]
 - (c) Describe the **lifecycle** of hookworms. [5mks]
 - (d) State **four** hall marks of chordates. [4 mks]
 - (e) List **four** examples of echinoderms. [4mks]
 - (f) State **five** morphological features of poriferans. [5mks]
 - (g) Explain the **homeostatic** function of pancreas in omnivorous mammals. [5mks]
- 2. (i) List **three** classes of phylum **cnidaria**. [3mks]
 - (ii) State **three** (3) species of **Schistosoma** and explain their **medical** importance [9mks]
 - (iii) Explain **four** values of **protozoans** to human economics. [8 mks]
- 3. (a) Describe the **five** distinctive features of **Nematodes**. [10mks]
 - (b) Describe **five** adaptations of **Pisces** to their mode of locomotion. [10mks]
- 4 (i) Reptiles are relatively more **evolved** compared to amphibians. **Discuss**. [10mks]
 - (ii) Classify **molluscs** into classes emphasizing the morphological features of each class. [10mks]
- 5. (i) Describe the distinctive features of **annelids**. [10mks]
 - (ii) Describe the **triploblastic morphology** in platyhelminthes. [10mks]