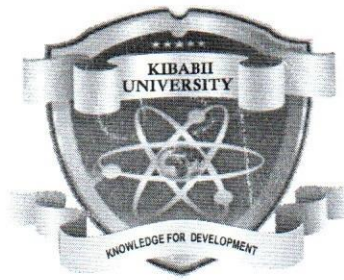


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(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION

COURSE CODE: ESM 112/113

COURSE TITLE: SURVEY OF ANIMAL KINGDOM

DATE: *Thursday, 9th August, 2018*

TIME: 2:00- 4:00 p.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



KIBU observes ZERO tolerance to examination cheating

1. a) State the role of the International Commission on Zoological Nomenclature (ICZN) in the naming of animals. (5 marks).

b) Define the following terms:

i) Evolutionary taxonomy

iii) Cladistics

iv) Paedomorphosis

v) Analogous structures

c) Outline problems associated with the use of morphological characteristics in animal identification. (5 marks)

d) State how the following is accomplished:

i) Sporozoan evasion of host defense mechanism

ii) Feeding in *Hydra*

iii) Osmoregulation in cestodes

iv) Feeding in lamprey

v) Locomotion in *Amphioxus*

e) Outline the features considered in the identification of vertebrate groups. (5 marks)

f) State the two methods used in fossil dating (5 marks)

2. Give a comparative account of the life cycles of a liver fluke and a tapeworm (20 marks)

3. Discuss the classification and economic importance of the phylum Porifera. (20 marks)

4. Discuss factors that make the members of the class amphibian to live successfully in both aquatic and terrestrial ecosystems. (20 marks)

5. Arthropods are the most successful invertebrates. Discuss. (20 marks)