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KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2017/2018 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER

SUPPLEMENTARY EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE/BACHELOR OF AGRICULTURAL EDUCATION AND EXTENSION

COURSE CODE: ESM 113

COURSE TITLE: SURVEY OF ANIMAL KINGDOM

DATE: 1st October, 2018

TIME: 11:30 -1:30 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. Define each of the following terms as used in the study of animals: (3 marks)
 - I. Diversity
 - II. Metamerism
 - III. cell
- b. Discuss the fates of the visceral clefts of chordates. (3 marks)
- c. Describe using plane diagrams the main symmetries exhibited by members of Animalia. (3 marks)
- d. List the main conclusions made by Gregor Mendel in his experimental results. (3 marks)
- e. Describe briefly sexual reproduction in echinoderms. (3 marks)
- f. Explain briefly the origin of endoskeleton in kingdom Animalia. (3 marks)
- g. All vertebrates are chordates but not all chordates are vertebrates. Justify. (3 marks)
- h. Describe the main characteristics of members of Rotifera. (3 marks)
- i. Discuss the contributions of Carl Linnaeus to the world of Science. (3 marks)
- j. Describe triplobalsty. (3 marks)
2. Describe main characteristics of Animalia. (20 marks)
3. Discuss the various feeding strategies/methods employed by members of Animalia to fully utilize the available resources in the environment. In each case cite an example of animal taxon that exhibits that strategy/method. (20 marks)
4. a) Explain how parasitic worms are adapted to their mode of nutrition. (10 marks)

b) Discuss how the vertebrate hos deals with these parasitic worms. (10 marks)
5. Discuss how humans beings influence the number, distribution and abundance of vertebrate species in nature. (20 marks)