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(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

SECOND YEAR 1ST SEMESTER MAIN EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY,
BACHELOR OF SCIENCE IN BIORESOURCE MANAGEMENT,
BACHELOR OF EDUCATION SCIENCE AND BACHELOR
AGRICULTURE EDUCATION AND EXTENSION**

COURSE CODE: SZL 212

COURSE TITLE: INTRODUCTION TO ANIMAL PHYSIOLOGY

DATE: WEDNESDAY 8TH 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



KIBU observes ZERO tolerance to examination cheating

- 1.
- a) Name three fields of physiology 3marks
 - b) State the meaning of the following terms: 3marks
 - i. Histology
 - ii. Fixative
 - iii. Biopsy specimen
 - c) Name the organelle associated with Lebers heritable optic neuropathy and explain the cause and effects of the disease 4marks
 - d) Explain the function of any three plasma proteins 6marks
 - e) Apart from the bone marrow give any other three sites where blood cells are formed 3marks
 - f) Give the major functions of connective tissue 4marks
 - g) State three functions of cartilage and identify where the following cartilage is located 6marks
 - i. Hyaline cartilage
 - ii. Elastic cartilage
 - iii. Fibrocartilage
 - h) Differentiate neuroglial cells and neurons 1mark
2. Describe the structure and functions of the three types of muscles 20 marks
3. Describe the role of the skin in thermoregulation 20 marks
4. Describe the structure and function of the male reproductive system 20 marks
5. Describe how hydrogen ions are formed and regulated in body fluids 20 marks