



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

JANUARY – APRIL 2018 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF BIOLOGY

REGULAR PROGRAMME

BIO 204: ANIMAL ANATOMY AND PHYSIOLOGY

Date: APRIL 2018

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

- Q1. a) Explain the following terms of reference used by anatomist when describing body parts. **(2marks)**
- i) Proximal
 - ii) Para sagittal plane
- b) i) Describe the functions of Endoplasmic reticulum (ER) in a cell **(2marks)**
- ii) Describe the various types of membranes found in the body **(6marks)**
- c) Differentiate the following terms as used in reference to joints synarthrosis, amphiarthrosis and diarthrosis. **(3marks)**
- d) Define the four physiological characteristics of muscle tissue **(4marks)**
- e) i) What controls the volume and concentration of urine **(3marks)**
- ii) Urination is a process of conscious and unconscious nerve control. Show the Steps of urination **(6marks)**
- f) What are neurotransmitters? Give 2 examples of neurotransmitters. **(4marks)**

- Q2. Name the accessory organs of digestion and explain the functions of each. **(20marks)**
- Q3. Describe the structure of a human heart **(20marks)**
- Q4. Describe the function and structure of internal female reproductive organs **(20marks)**
- Q5. i) Discuss the physiology of respiration **(16 marks)**
- ii) Define four volumes used to measure breathing. **(4marks)**

END