



# **EMBU UNIVERSITY COLLEGE**

**(A Constituent College of the University of Nairobi)**

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**2015/2016 ACADEMIC YEAR**

**SECOND SEMESTER EXAMINATION**

**SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE  
(ENVIRONMENTAL CONSERVATION AND NATURAL RESOURCES  
MANAGEMENT), BACHELOR OF SCIENCE (MICROBIOLOGY AND  
BIOTECHNOLOGY) AND BACHELOR OF SCIENCE (EDUCATION)**

**SZL 203B: ANIMAL PHYSIOLOGY**

**DATE: APRIL 5, 2016**

**TIME: 02:00-04:00**

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**INSTRUCTIONS: Answer any ten (10) questions (7 marks each)**

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1. Outline the main differences between somatic and autonomic nervous system.
2. Discuss briefly the mechanism of synaptic transmission.
3. Discuss the functions of the human cardiovascular system.
4. Explain the importance of the placenta in mammals.
5. Explain avian egg formation.
6. State the functions of plasma membrane.
7. Explain the function of the parts of a mammalian male reproductive system.
8. Distinguish between the digestive systems of monogastrics and polygastrics.
9. Describe the main types of muscles in humans and their functions.
10. Discuss the role of the skin in thermoregulation.
11. Outline the principal homeostatic processes in vertebrates.
12. Explain the mechanism of gaseous exchange in the human lungs.

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