



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

**SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE (SPORTS SCIENCE)**

SSS 104: HUMAN PHYSIOLOGY I

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DATE: THURSDAY 29TH MARCH 2012

TIME: 2.00 P.M. – 4.00 P.M.

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INSTRUCTIONS

Answer Question One (Compulsory) and any other Two questions

Answer each question in a separate booklet

1. Expound on anaerobic sources of ATP (30 marks)
2. Using closed circuit and open circuit spirometry, analyze indirect calorimetry. (20 marks)
3.
 - a) Explain the functions of the conducting zone of the respiratory system (5 marks)
 - b) Explain the effect of 2-3 diphosphoglyceric acid (DGP) and Ph on the oxyhemoglobin dissociation curve. (15 marks)
4.
 - a) Describe the cardiac cycle (10 marks)
 - b) Analyze the regulation of blood pressure in the human body (10 marks)
5.
 - a) Distinguish among the three types of muscle in the human body. (10 marks)
 - b) Expound on the biochemical properties of the skeletal muscles. (10 marks)