KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION (PHYSICAL EDUCATION)

HPE 102 / SPE 101: FUNCTIONAL HUMAN ANATOMY

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DATE: THURSDAY 29TH MARCH 2012 **TIME: 2.00 P.M. – 4.00 P.M.**

INSTRUCTIONS

Answer any THREE (3) questions.

1. a) Describe the various planes of the human body. (7.3 marks)

   b) Analyse the levels of structural organization that make up the human body. (16 marks)

2. a) Expound on any four ways of naming muscles and give relevant examples for each. (8 marks)

   b) Explain the significance of the following muscle properties in the functioning of the human body

      i) Elasticity

      ii) Contractility

      iii) Extensibility

      iv) Excitability

      v) Autorythimicity (15.3 marks)

3. a) Differentiate between the pound on types of synovial joints found in the musculoskeletal system. (10 marks)

   b) Describe the process of bone structure formation and development throughout human life explaining its relevance to PE teacher education. (13.3 marks)

4. Assess the functions of the various body systems showing how they work together to aid human movement. (23.3 marks)

5. a) Using a well labeled diagram, explain the functions of the parts of a neuron. (10 marks)

   b) Analyze the nervous tissues associate with human movement during physical activity. (13.3 marks)