



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2012/2013
INSTITUTE OF OPEN, DISTANCE AND E-LEARNING

**SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (FOODS, NUTRITION & DIETETICS)**

HFN 200: HUMAN ANATOMY AND PHYSIOLOGY

DATE: MONDAY, 8TH JULY 2013

TIME: 11.00 A.M. – 1.00 P.M.

INSTRUCTIONS:

Answer all questions in Section A and any other two in section B.

SECTION A

1. Giving examples, explain five different functions of connective tissues. (5 marks)
2. Outline five factors that initiate cell differentiation. (5 marks)
3. Describe at least five enzymes vital in nutrient digestion. (5 marks)
4. Giving example, explain five components of the two main body cavities. (5 marks)
5. Outline five importance mitosis. (5 marks)
6. Explain five different roles of anatomical planes in clinical nutrition. (5 marks)
7. Giving examples, describe at least five types of cells of the intergumentary system. (5 marks)
8. Outline at least five different cranial bones. (5 marks)

SECTION B

Answer any two questions in this section.

9. The nervous and endocrine systems serve internal communicative roles in the human body.
 - i) Explain one similarity and four differences between the two systems with reference to their interactions with stimuli. (5 marks)
 - ii) With the aid of a diagram, describe anatomy of a neuron and three differences between an axon and a dendrite. (6 marks)
 - iii) Describe the two types of nervous tissues in the central nervous system. (4 marks)
10. Discuss the relationship between the kidney and pituitary glands in controlling hydration levels among long distant athletes. (15 marks)
11. Describe at least four lymphatic organs and the associated disorders. (15 marks)
