



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2009/2010

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (FOODS, NUTRITION AND DIETETICS)

HFN 307: THERAPEUTIC NUTRITION

DATE: Tuesday 29th December, 2009

TIME: 2.00 p.m – 4.00p.m

INSTRUCTIONS

Answer all questions in this paper in the answer booklets provided. This examination is worth 70 marks.

SECTION A

1. Indicate the normal range of the following biochemical indicators:
 - i) Hemoglobin. [1 mark]
 - ii) Plasma glucose. [1 mark]
 - iii) Blood Urea Nitrogen. [1 mark]
 - iv) Blood pressure. [1 mark]
2. Distinguish between the following:
 - i) Very Low Density Lipoprotein and High Density Lipoprotein. [2 marks]
 - ii) Food allergy and food intolerance [2 marks]
 - iii) Hepatitis Type A and Hepatitis type B [2 marks]
3. State **four** ways in which dietary potassium influences blood pressure?[4 marks]
4. State **four** common causes of malabsorption conditions. [4 marks]
5. Describe **four** metabolic results of elevated body temperatures. [4 marks]
6. Describe **five** metabolic effects on renal disorders. [5marks]
7. State the role of diet therapy in Chronic Renal Failure. [5 marks]

8. State **three** compounds which stimulate enzymes that facilitates the metabolism of possible carcinogens. [3 marks]
9. Explain **four** reasons why excessive alcohol intake contributes to the development of malnutrition. [4 marks]
10. State **three** factors that lead to vitamin deficiencies in individuals with liver disease. [3 marks]
11. State four reasons why regular physical activity is important for diabetic patients. [4 marks]

SECTION B

12. Discuss the pathological changes in liver disease. [8 marks]
13. Discuss the causes, symptoms and treatments of ketoacidosis. [12 marks]
 - Causes [3 marks]
 - Symptoms: [5 marks]
 - Treatment: [4 marks]
14. Illustrate and explain the cycle of good nutrition and resistance to infection in the context of HIV / AIDs. [4 marks]