2916/104
DIET THERAPY I,
PRINCIPLES OF HUMAN NUTRITION,
INTRODUCTION TO NUTRITION AND
DIETETICS, ANATOMY AND PHYSIOLOGY
Oct./Nov. 2022

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN NUTRITION AND DIETETICS

MODULE I

DIET THERAPY I, PRINCIPLES OF HUMAN NUTRITION, INTRODUCTION TO NUTRITION AND DIETETICS, ANATOMY AND PHYSIOLOGY

3 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of TWO sections; A and B.

Answer ALL the questions in section A and any THREE questions from section B in the answer booklet provided.

Each question in section A carries 4 marks, while each question in section B carries 20 marks. Maximum marks for each part of a question are indicated.

Candidates should answer the questions in English.

This paper consists of 3 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A (40 marks)

Answer ALL the questions in this section.

1. Explain the meaning of the following terms:

	(a) nutrient utilization;	(2 marks)
	(b) tolerable upper intake levels.	(2 marks)
2.	Distinguish between a nutritionist and a dietitian.	(4 marks)
3.	Mention four ways of modifying the content of nutrients in a diet.	(4 marks)
4.	Explain the cause of the following complications of parenteral nutrition:	
	(a) hypoglycaemia;	(2 marks)
	(b) fluid imbalance.	(2 marks)
5.	State four causes of peptic ulcers.	(4 marks)
6.	Highlight four signs of niacin deficiency.	(4 marks)
7.	State four functions of vitamin in the body.	(4 marks)
8.	Indicate four functions of the skin.	(4 marks)
9.	Explain two roles of the spinal cord.	(4 marks)
10.	Identify four sensory organs of the body.	(4 marks)

SECTION B (60 marks)

Answer any THREE questions from this section.

11.	(a)	Explore five factors that influence food selection for individuals.	(10 marks)
	(b)	Explain five strategies that can be used to prevent anaemia in an individual.	(10 marks)
12.	(a)	Explain how the following determine health status:	
		(i) heredity;	(2 marks)
		(ii) environment;	(2 marks)
		(iii) lifestyle;	(2 marks)
		(iv) political system;	(2 marks)
		(v) education.	(2 marks)
	(b)	Identify five female reproductive organs and five male reproductive organs.	(10 marks)
13.	(a)	Describe the following:	
		(i) skeletal muscles;	(3 marks)
		(ii) smooth muscles.	(3 marks)
	(b)	Examine two functions of the medulla oblangata.	(4 marks)
	(c)	Explain five dietary guidelines to manage gastroesophageal reflux disease.	(10 marks)
14.	(a)	Examine four factors that may predispose individuals to zinc deficiency.	(8 marks)
	(b)	Differentiate between nutrition skills and nutrition competence in professio	nal practice. (4 marks)
	(c)	Explain four processes performed by the digestive system.	(8 marks)
15.	(a)	Explain four ways in which drugs influence nutrient absorption.	(8 marks)
	(b)	Examine three health claims associated with the use of nutraceuticals.	(6 marks)
	(c)	Identify six constituents of blood plasma.	(6 marks)