



University of Choice

MASINDE MULIROUNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR
MAIN EXAMINATION

FIRSTYEAR SECONDSEMESTER EXAMINATIONS FOR THE DEGREE OF

MSC. PUBLIC HEALTH NUTRITION

COURSE CODE: HMD 820

COURSE TITLE: THERAPEUTIC DIETETICS AND PRODUCT DEVELOPMENT

DATE: 21ST APRIL 2022

TIME: 9:00AM - 12.00PM

INSTRUCTIONS TO CANDIDATES

There are three sections in the paper, answer questions in ALL the three sections.

1. QUESTION PAPER comprises of 5 essay type questions. Answer ALL

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating.

This Paper Consists of 2 Printed Pages. Please Turn Over

ANSWER ALL QUESTIONS.

Question 1

You want to formulate therapeutic soup for hepatic conditions. Discuss exhaustively the challenges you are likely to encounter during formulation process (20marks)

Question 2

In many hospitals in Kenya, there is administration of therapeutic diets. Select 5 therapeutic diets that you are likely to get them in our hospitals. Critically analyze their relevancy, efficiency, effectiveness and cost analysis in comparison to convectional diet (20marks)

Question 3

Discuss 5 ways of determining nutrient content of a nutrition product. (20 marks)

Question 4

Discuss legislation issues surrounding nutrition labeling and the use of nutrition and health claims in product development (20mks)

Question 5

Any product that can support the growth of pathogenic microorganisms; it must be assigned a 'use-by' date, after which the product must not be sold, and should not be consumed. The manufacturer is responsible for setting this date - and so must be aware of all the factors that could affect microorganism growth; Describe factors that affect the shelf life of a product

(20 marks)