

QUALIFICATION : BACHELOR of HUMAN NUTRITION	
QUALIFICATION CODE: 08BHON	LEVEL: 7
COURSE: HUMAN NUTRITION II	COURSE CODE: HTN721S
DATE: NOVEMBER 2023	SESSION: 1
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY: QUESTION PAPER

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MODERATOR: MS MARJORIE VAN WYK

INSTRUCTIONS

1. Answer all questions on the separate answer sheet.
2. Please write neatly and legibly.
3. Do not use the left side margin of the exam paper. This must be allowed for the examiner.
4. No books, notes and other additional aids are allowed.
5. Mark all answers clearly with their respective question numbers.

PERMISSIBLE MATERIALS:

1. Non-Programmable Calculator

ATTACHEMENTS

1. Z Table
2. Normal distribution table
3. Chi-square table

This paper consists of 3 pages including this front page

SECTION A:**[44 MARKS]****QUESTION 1:****(44 MARKS)**

- 1.1 Define the following terms and concepts.
- 1.1.1 Nutrition care process (2)
 - 1.1.2 Glycogenolysis (2)
 - 1.1.3 Cholecystitis (2)
 - 1.1.4 Diabetes mellitus (2)
 - 1.1.5 Functional disorder (2)
 - 1.1.6 Pharmacokinetics (2)
 - 1.1.7 Food intolerance (2)
- 1.2 The liver is one of the important organs in the human body and performs several critical functions. Briefly discuss the role of the liver in
- 1.2.1 Carbohydrate metabolism (6)
 - 1.2.2 Fat metabolism (8)
- 1.3 Liver cirrhosis is among the major liver diseases. Outline three (3) risk factors and three (3) complication of liver cirrhosis (6)
- 1.4 Propose five (5) goals for nutritional management of diabetic patient (5)
- 1.5 Outline five (5) risk factors of diabetes mellitus (5)

SECTION B:**[37 MARKS]****QUESTION 2:****(37 MARKS)**

- 2.1 Evaluate the symptoms of the gastrointestinal disorders and fill in the corresponding disorders in the table below (7)

	Symptoms	Disorder
1	Ingestion of solid food causes distress but liquids do not	
2	Difficulty in swallowing; food sticks in throat	
3	Epigastric pain when eating	
4	Pain 2-5 hours after a meal, relieved upon eating	
5	Abdominal pain several hours after a fatty meal	
6	Cramps, distention and flatulence several hours after drinking milk	
7	heartburn, after a fatty meal	

2.2 Peter is 30 year old diabetic patient with height of 165cm and with medium body fluid composition. He has a desirable weight of 53.6 kg. He is also engaged in light physical activity and thus requires 35 to 40 kcal per kg per day.

2.2.1 Calculate Peter's average calorie allowance (8)

2.3 Nicodemus hypertensive patient and requires 70 kcal per day of body weight per day. Her caloric intake per day for the week is showed in the table below

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
35 kcal	80 kcal	45 kcal	50 kcal	30 kcal	60 kcal	40 kcal

2.3.1 Calculate Nicodemus nutritional indexes for Tuesday and Thursday (5)

2.3.2 Calculate the average nutritional index for the week (9)

2.3.3 Explain the nutritional significance of the nutritional index obtained in 2.3.2 (2)

2.4 Propose six (6) ways diet modification can be made (6)

SECTION C: [19 MARKS]

QUESTION 3: (19 MARKS)

3.1 Differentiate between drug-drug interaction and drug-nutrient interaction (4)

3.2 Explain the following mechanisms of drug-drug interaction and drug-nutrient interaction.

3.2.1 Potentiation (2)

3.2.2 Inhibition (2)

3.2.3 Alteration of absorption (2)

3.2.4 Alteration of distribution (2)

3.3 Explain the differences in the importance of soluble dietary fiber and insoluble dietary fiber in the nutrition management of diabetes mellitus (4)

3.4 Propose three (3) effects of drug on food intake (3)

END OF QUESTION PAPER