



MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST) MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR

MAIN EXAM

SECOND YEAR FIRST SEMESTER EXAMINATIONS
FOR THE DEGREE
OF
BSC. HUMAN NUTRITION AND DIETETICS

COURSE CODE:

HND 203

COURSE TITLE:

NUTRITION ASSESSMENT

DATE: 20/12/2023

TIME: 8:00-10:00 AM

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in SECTION A and B
Answer only TWO questions in SECTION C
Read additional instructions under various sections

TIME: 2Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 3 Printed Pages. Please Turn Over.

SECTION A: 10 MULTIPLE CHOICE QUESTIONS EACH 1 MARK -TOTAL 10MARKS

1.	Bitot's spots may indicate deficiency. A. vitamin A B. vitamin B C. vitamin C
2.	D. vitamin E The acronym NFPE abbreviates the following in nutrition assessment.
3. ₋	 A. Nutrition Focused Patient Examination B. Nutrient Focused Patient Examination C. Nutrition Focused Physical Examination D. Nutrient Focused Patient Examination is a healthy fasting blood glucose level.
	A. \leq 99 mg/dL (6 mmol/l.) B. \geq 99 mg/dL (6 mmol/l.) C. 100 to 125 mg/dL (6.1- 6.9 mmol/l) D. 126 mg/dL (7.0 mmol/l)
4.	The recommended protein intake isper kilogram of body weight per day. A. 1.8- 2 gram B. 0.8 to 1 gram C. 0.6 to 0.8 gram D. 0.7 to 1.2 gram
5.	The following is NOT a method used to separate and quantify lipoproteins from the plasma sample, A. sublimation B. ultracentrifugation C. precipitation D. electrophoresis
6.	What does 'Oedema +' refers to? A. Pitting edema on both feet and hands B. Pitting edema on both feet and ankle C. Generalized bilateral pitting edema D. No edema
7.	 Which of the following group of people is at highest risk of vitamin K deficiency. A. Pregnant women B. Teenagers C. New borns D. Old people
8.	The following are causes of hypomagnesemia EXCEPT ; A. paracetamol medications. B. chronic diarrhea. C. malabsorption. D. alcoholism.
9.	

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C	Hypormagneeam	CIL
C.	Hypermagnesem	IIa

- D. Hyperphosphatemia
- 10. The following vitamin deficiency causes metabolic alkalosis.
 - A. Hypokalemia
 - B. Hyponatremia
 - C. Hypochloremia
 - D. Hypophosphatemia

SECTION B: ANSWER ALL QUESTIONS, EACH QUESTION, 5 MARKS (30 MARKS)

11. State SIX areas one can examine for muscle loss during NFPE.

12.

i. What is a 24 hour recall

[1 mark]

ii. Give THREE advantages of a 24 hour recall

[3 marks]

iii. Highlight TWO limitations of a 24 hour recall

[2 marks]

13.

i. Define anthropometry.

[2 marks]

- ii. List FOUR ways of estimating height in adults when it cannot be measured directly? [4 marks]
- 14. Identify **SIX** physical findings related micronutrient deficiencies.

[6 marks]

15.

i. Define nitrogen balance.

[1 mark]

ii. Mr. Ochieng's consumed 250 grams of protein, his nitrogen in urinary urea was 120g, calculate his nitrogen balance and discuss the implications of the results from this calculation. [5 marks]

SECTION C: ANSWER ANY TWO QUESTIONS; EACH QUESTION 15 MARKS (30 MARKS)

16. You are a nutrition officer in Maternal and child health clinic (MCH). Naliaka is a pregnant woman who has just made her first prenatal visit to your clinic. Discuss Naliaka's entire nutrition assessment process upto1 year postpartum.

[15 marks]

17. Describe the following methods of dietary assessment.

a. Food diaries.

[3 MARKS]

b. Duplicate diet.

[3 MARKS]

c. Household measures.

[3 MARKS]

d. Weighed inventory.

[3 MARKS]

e. Food frequency questionnaires

[3 MARKS]

18. Discuss the following any **FIVE** methods of body composition analysis.

[15 marks]