



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

MAIN EXAMS

FOURTH YEAR FIRST TRIMESTER EXAMINATIONS

FOR THE DEGREE OF

BSC. HUMAN NUTRITION AND DIETETICS

COURSE CODE: HND 402

COURSE TITLE: NUTRITION IN DISEASE MANAEMENT

DATE: 15-12-2023

TIME: 12PM – 2PM

INSTRUCTIONS TO CANDIDATES

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

1. **Section A** comprises of 10 multiple choice questions.
2. **Section B** comprises of 4 short answer questions.
3. **Section C** comprises of 2 essay type questions. Answer **BOTH**

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

**SECTION A: ANSWER ALL QUESTIONS. EACH QUESTION IS 1 MARK-
TOTAL 10 MARKS.**

1. What Micronutrients should a burn patient take _____.
 - a) Copper, Zinc, Selenium, Vitamins A, C and E.
 - b) Folic acid, Zinc, Chromium and Iron.
 - c) Selenium, Folate, Chromium, Magnesium and Copper.
 - d) None of the above.

2. An aggressive nutrition approach for the burn patient is indicated to _____.
 - a) Address hyper metabolism.
 - b) Enhance nitrogen retention.
 - c) Support wound healing.
 - d) All of the above.

3. Metabolic stress associated with sepsis, trauma, surgery or ventilation leads to _____.
 - a) Increased energy requirement (35-40kcal/kg/day).
 - b) Decreased energy requirement (35-40kcal/kg/day).
 - c) No interference in energy requirement
 - d) Increased protein requirement ((35-40kcal/kg/day).

4. Which one is **NOT** a late complication of Parenteral Nutrition _____.
 - a) Metabolic bone diseases: osteoporosis
 - b) Hepatic complications - fatty liver, liver failure, hyperammonemia
 - c) Hyper/hypoglycemia
 - d) Vitamin and traced element deficiency

5. A diet high in saturated fats can be linked to which of the following _____.
 - a) Kidney failure.
 - b) Bulimia.
 - c) Anorexia.
 - d) Cardiovascular Disease.

6. What are the causes of Low Birth weight _____.
 - a) Low maternal weight, teenage / multiple Pregnancies.
 - b) Intraventricular/Hemorrhage/Hypoglycemia.
 - c) Hypothermia/Birth asphyxia.
 - d) Retinopathy of prematurity/Apneic spells/Respiratory distress.

7. To overcome diabetes a person can increase the intake of _____ and reduce the intake of _____.
 - a) Carbohydrates, Proteins.
 - b) Proteins, Fats.

- c) Fats, Carbohydrates.
 - d) Carbohydrates, fats.
8. What is a typical diet for a patient with cardiovascular disease _____?
- a) High Carbohydrates, Low fat, High Sugar.
 - b) Low salt, Low fat, low calories.
 - c) High Fat, High Salt, High calories.
 - d) High proteins, Low fat, High salt.
9. The daily recommended allowance of Proteins for an adolescent boy is _____.
- a) 52gms.
 - b) 45gms.
 - c) 30gms.
 - d) 20gms.
10. Complementary feeding of an infant starts at what age _____.
- a) 6 months.
 - b) 7 months.
 - c) 8 months.
 - d) 9 months.

SECTION B: ANSWER ALL QUESTIONS. EACH QUESTION IS 4 MARKS. TOTAL - 20 MARKS.

11. Outline the role of nutrition care in cancer management. (4 Marks).
12. Discuss the link between Food, Nutrition and HIV and AIDS (4 Marks).
13. Explain three roles of nutrition in the management of disease. (4Marks).
14. Discuss the role of a nutritionist and a dietician in disease management (4Marks).
15. Describe the effect of Malaria on Nutritional status. (4Marks).

SECTION C: ANSWER TWO QUESTIONS. EACH QUESTION IS 15 MARKS. A TOTAL 30 MARKS)

16. List the 8 critical nutrition interventions for PLWHA (15 Marks).
17. Discuss the nutrition and feeding problems of Low Birth weight baby (15 Marks).
18. Describe the effect of infectious diseases on the nutritional status (15 Marks).