



MACHAKOS INSTITUTE OF TECHNOLOGY

MACHAKOS TOWN CAMPUS

SCHOOL OF HEALTH AND APPLIED SCIENCES

DIPLOMA IN NUTRITION AND DIETETICS MANAGEMENT

MODULE III

END OF SEMESTER EXAMINATIONS

JAN - APRIL 2021

DIET THERAPY III

KNEC 2426/302

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

1. Answer **ALL** questions in **SECTION A** and **TWO** in **SECTION B**.
2. Any examination **IRREGULARITY** will lead to **DISQUALIFICATION**.
3. Indicate your **FULL ADMISSION NUMBER** in each Answer Sheet used.
4. **DOT NOT** write your **NAME** anywhere on the answer booklet.
5. Cell phones are **NOT** allowed in the examination room.
6. Ensure you have both **SCHOOL ID CARD** and examination card in the examination room.
7. Scientific calculators may be used where appropriate.

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SECTION A: (40 mks)

1. Define the following terms: (5mks)
 - a. Gout
 - b. Neoplasm
 - c. Cancer.
 - d. Tumor
 - e. Carcinogen
2. List five nutritional and feeding problems associated with feeding in patients undergoing chemotherapy cancer treatment (5mks)
3. List five nutritional and feeding problems associated with feeding in patients undergoing radiotherapy cancer treatment (5mks)
4. Explain the following terms in relation to cancer nutritional management: (5mks)
 - a. Dysphasia
 - b. Anorexia
- 5 Explain why there is increased protein and energy needs in people with HIV and AIDS (5mks)
6. Make short notes under the following subheadings in relation to burns: (5mks)
 - a. Catabolism
 - b. Anabolism
7. Name and explain THREE possible causes of Cancer (5mks)
8. Name three goals of Nutritional Intervention in Cancer (5mks)

SECTION B: (60 mks)

- 9 (a) State five objectives of nutritional management in HIV and AIDS (10mks)
 - (b) Discuss the factors you would consider in designing a diet plan for a patient with HIV and AIDS. Consider the various nutrients and their importance. (10mks)
- 10 (a) State five objectives of nutritional management in burns (10mks)
 - (b) Discuss the factors you would consider in designing a diet plan for a patient with a 3rd degree burn. Consider the various nutrients and their importance. (10mks)
- 11 (a) Suggest five ways of managing mouth dryness. (10mks)
 - (b) Discuss five potential causes of diarrhea in HIV/AIDS patients. (10mks)

12 a. Explain the following terms in relation to burns:

(10mks)

- i. Enteral feeding
- ii. Parenteral feeding

b. A burn patient weighing 70 kilogrammes has a 30% burn. If the energy requirement is 20kcal plus 50 kcal/% burn and the protein is 1g/kg plus 2g/% burn, use the Sunderland Formula to determine:

- i. energy requirement (5mks)
- ii. Protein requirement. (5mks)