

AMREF INTERNATIONAL UNIVERSITY SCHOOL OF MEDICAL SCIENCES DEPARTMENT OF NURSING & MIDWIFERY SCIENCES END OF SEMESTER DECEMBER 2024 EXAMINATIONS

COURSE CODE AND TITLE: DOP 121: Applied Nutrition in Oncology

DATE: 4-DECEMBER 2024

Duration: 2 HOURS Start: 9:00 AM Finish: 11: AM

INSTRUCTIONS

- 1. This exam is out of 70 marks
- 2. This Examination comprises THREE Sections. Section I: Multiple Choice Questions (20 marks) Section II: Short Answer Questions (30 marks) and Section III: Long Answer Questions (20 marks)
- 3. Answer ALL Questions.
- **4.** Do Not write anything on the question paper -use the back of your booklet for rough work if need be.

- 1. A nutritional expert qualified to design meal plans for patients with medical conditions;
 - A. Diet registrar
 - B. Registered dietician
 - C. Certified wellness coach
 - D. Social worker
- 2. Best nutrition recommendation for a patient undergoing cancer treatment;
 - A. Avoid Micronutrients
 - B. Maintain a Healthy Weight
 - C. Lower Your Intake of Macronutrients
 - D. Avoid Dietary Fats
- 3. These micronutrients are natural chemicals found in plant-based foods that provide nutrients for healing and repair;
 - A. Proteins
 - B. Carbohydrates
 - C. Phytochemicals
 - D. Fats
- 4. The following is not part of current advice for cancer prevention;
 - A. Maintain normal body weight
 - B. Increase intake of red meat
 - C. Minimize alcohol intake
 - D. Eat at least 400g/day of fruits and vegetables
- 5. Diets high in fiber have been proposed to protect against colorectal cancer by which one of the following mechanisms;
 - A. Antioxidant effect, which requenches free radicals
 - B. Increases repair of damaged DNA
 - C. Increases induction of detoxifying enzymes
 - D. More rapid removal of potential carcinogens
- 6. Aflatoxins are potent carcinogens in;
 - A. The brain
 - B. Liver
 - C. Lungs
 - D. None of the above
- 7. Dietary factor with the greatest impact on cancer risk (protective or negative);
 - A. Fiber
 - B. Meat
 - C. Fruits and vegetables
 - D. carbohydrates

- 8. Goal of nutrition in palliation;
 - A. ENSURING maintenance of quality of life
 - B. Ensuring nutrition does not cause stress
 - C. Ensuring meals are enjoyable
 - D. Facilitate good nutritional state
- 9. The following is not a consequence of malnutrition in cancer patients;
 - A. increase length of hospital stay
 - B. decrease quality of life
 - C. increase morbidity
 - D. decrease incidence of infections
- 10. All the following are factors known to be related to cancer development, EXCEPT;
 - A. Underweight and high intensity exercise
 - B. Smoking and alcohol intake
 - C. Genetic mutation
 - D. Overweight and lack of physical activity
- 11. Example of effective nutritional management of nausea;
 - A. Small frequent meals
 - B. Use of favorite foods to increase appetite
 - C. Light exercise
 - D. Providing room temperature/cold foods
- 12. The formula for the body mass index is;
 - A. A person's weight in kilograms squared divided by the square of his/her height in meters (kg²/m²)
 - B. A person's weight in kilograms squared divided by his/her height in meters (kg^2/m)
 - C. A person's weight in kilograms divided by his/her height in meters (kg/m)
 - D. A person's weight in kilograms divided by the square of his/her height in meters (kg/m²)
- 13. Medical diagnosis of obesity is based on a BMI cut-off point of;
 - A. 25.0
 - B. 30.0
 - C. 35.0
 - D. 40.0
- 14. Greatest risk for cancer of the esophagus;
 - A. Processed meat
 - B. Fruits and vegetables
 - C. Salts
 - D. Alcohol
- 15. The following is an ABSOLUTE contraindication to parenteral nutrition;
 - A. Diarrhea
 - B. Liver cirrhosis
 - C. Malignancy
 - D. Active Infection

- 16. All are nutritional supplements for cancer patients, except;
 - A. Purines
 - B. Melatonin
 - C. Oral glutamine
 - D. Probiotics
- 17. All of the following are important in managing treatment related anorexia, EXCEPT?
 - A. Eat foods that are high in protein and calories
 - B. Add extra protein and calories to food, such as using protein-fortified milk
 - C. Drink large amounts of liquids during meals
 - D. Try new foods and new recipes
- 18. Food that is encouraged for use during acute diarrhea
 - A. Fried foods
 - B. Spiced foods
 - C. Dairy products
 - D. Water
- 19. Daily water requirement for a healthy adult;
 - A. 35mls/kg/day
 - B. 120mls/kg/day
 - C. 45mls/kg/day
 - D. 100mls/kg/day
- 20. All are symptoms of cancer cachexia, except;
 - A. Reduced lipolysis
 - B. Increased albumin levels
 - C. Muscle atrophy
 - D. Reduced appetite

SECTION II: SHORT ANSWER QUESTIONS (30marks)

- 1. Outline eight (8) goals of nutrition in cancer care (8marks)
- 2. Outline six (6) the nutritional messages that would help a cancer patient manage nausea in their home setting(6marks)
- 3. Highlight six (6) roles of the government in ensuring reduction of Nutritional related disorders (6marks)?
- 4. Outline four (4) complications of parenteral nutrition in cancer care(4marks)
- 5. Outline six (6) risks of nutritional support at the end of life (6marks)

SECTION III: LONG ANSWER QUESTION (20marks)

- 1. Mrs. Jane has been admitted at the Oncology ward with Esophageal cancer stage IV, presenting with Dysphagia grade three, dehydration, nausea, and substantial weight loss.
 - a. Briefly, with justification describe two (2) priority intervention for Mrs. Jane to help improve her nutritional state (4marks)
 - b. If Mrs. Jane, was able to feed orally, outline six (6) nutritional advice that you would give her to help cope with nausea (6marks)
 - c. If a stent was to be fashioned to assist with feeding, what are some of the common complications associated with stenting that would impede proper feeding (5marks).
 - d. Briefly outline five (5) roles of the oncology nurse in ensuring that Mrs. Jane gets back to Normal Nutritional status(5marks)