

BOWEN UNIVERSITY, IWO
COLLEGE OF HEALTH SCIENCES
NUTRITION AND DIETETICS PROGRAM
2021/2022 SECOND SEMESTER EXAMINATION

COURSE CODE: NTD 412
CREDIT UNIT: 3
TIME: 2HRS 30MIN

**COURSE TITLE: ADVANCES IN NUTRITION AND
DIETETICS**

**INSTRUCTION: ANSWER FIVE QUESTIONS WITH
AT LEAST TWO FROM EACH SECTION**

Section A

- 1 a. 70 individuals in Swiss community have been admitted at the Emerson hospital with complaints such as fever & cough initially noticed, followed by sore throat, then difficulty in breathing or shortness of breath. They were diagnosed of COVID-19. As a Nutritionist, you have been summoned to educate the health workers on "the role of nutrition in immunity." Discuss extensively the subject matter. 6.5 marks
- b. Discuss what Innate and Adaptive immunity is. 4.5 marks
- c. As a Dietitian, a patient of yours requires dietary management for infection. What would you recommend for him and explain your reasons in few words? 3 marks
- 2 a. Explain the dimensions of food security 3 marks
- b. Discuss extensively the synergy between climate change and food security 11 marks
- 3 a. Discuss fetal origin of Adult Disease hypothesis 8 marks
- b. How would you advise a nursing mother concerning dietary habit of her child with respect to this hypothesis 6 marks

Section B

4. a. Genetically modified foods are common today with great potential benefits and also potential harms. Discuss. 10marks
- b. List 4 techniques used in transferring isolated gene into the host during the process of genetic modification. 4marks
5. a. Ola has just been employed as an Intern with an NGO and was given a task using ICT, a new concept in nutrition. Kindly discuss the ICT applications in Nutrition and Dietetics with him. 7marks
- b. Malnutrition leads to illness, significantly reduced quality of life and even, death. Briefly explain the human right to adequate food and nutrition. 7marks
6. a. Functional foods can provide ingredients that improve health in a convenient way. Kindly explain to Madam Kofo, using 3 examples of functional components, their sources and potential benefits. 9marks
- b. Nutrigenetics and Nutrigenomics are said to hold much promise for providing better nutritional advice. What then does nutrigenomics entail? 5marks