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# DMI-ST. EUGENE UNIVERSITY

ZAMBIA

DEGREE EXAMINATION – DECEMBER 2023

Semester: VI 357FP63 NUTRITION ASSESMENT AND NUTRIGENOMICS

Time: 3:00 Hours

Max. Marks: 100

Answer any FIVE Questions (5 x 20 = 100 Marks)

1. a) Explain the meaning of nutrition status and its implication on health of humans. (5 Marks)
- b) Nutrition Assessment methods are classified as either direct or indirect. Discuss these two terms while explaining the differences between them. (5 Marks)
- c) Explain the science behind Anthropometry and Biochemical measurement methods in human nutrition assessment. (10 Marks)
2. a) Discuss the significance of immunization in the promotion of health and nutrition. (5 Marks)
- b) Describe the Immunization Schedule for Zambia. (5 Marks)
- c) Discuss the significance of Child Health Week in Zambia and the activities undertaken to promote child health and nutrition. (10 Marks)
3. a) What is health informatics? (5 Marks)
- b) What is the significance of Health Informatics in Health Care? (5 Marks)
- c) Explain nutrigenomics. (5 Marks)
- d) Define nutrigenomics and what are the examples of science that are brought together in nutrigenomics? (5 Marks)
4. a) Explain Bioinformatics. (10 Marks)
- b) Highlight on BLAST. (5 Marks)
- c) What is Multiple Sequence Alignment? (5 Marks)
5. a) Food Service management usually encompasses a system in order to ensure timely and safe delivery of food. Elaborate on the systems approach to food service management. (10 Marks)
- b) Explain the critical elements of food service facility. (5 Marks)
- c) Discuss the role of hospital food service managers. (5 Marks)

6. a) International Organizations and agencies are important in promoting nutrition in the population. Explain the role of the United Nations Systems in Zambia in Nutrition. **(5 Marks)**
- b) Explain the role of government in food and nutrition in Zambia. **(5 Marks)**
- c) Elaborate on the coordination of nutrition in Zambia from national to Community levels. **(10 Marks)**
7. a) What are Protein sequence databases in nutrition? **(5 Marks)**
- b) Describe any four (4) Protein Sequence data bases explaining their significance and use. **(10 Marks)**
- c) Discuss the application of Protein sequence databases. **(5 Marks)**