

**2024 1 EXAMINATION**

**PROGRAMME: MSc PUBLIC HEALTH**

**COURSE CODE: PHS802**

**COURSE TITLE –INTRODUCTION TO PUBLIC HEALTH NUTRITION**

**CREDIT UNITS: 3**

**TIME ALLOWED: 2½ HOURS**

**ATTEMPT ALL QUESTIONS**

- 1a. Enumerate five (5) functions of proteins in the body
- 1b. Explain the classification of protein and list all the components of each classification based on their essentiality for infants and adults.
- 1c. Distinguish between complete and incomplete protein, giving an example of foods that can be combined to ensure consumption of complete protein and identify the incomplete protein in the specific foods.
- 1d. Describe the digestion of proteins in the body
  
- 2a. What is the composition of colostrum?
- 2b. Explain the procedure for measuring the mid-upper arm circumference of a child
- 2c. List and explain the indices of malnutrition in under-5 children
  
- 3a. What is goal of the “National Plan of Action for Nutrition” (NPAN)?
- 3b. Distinguish between the “National Plan of Action for Nutrition” (NPAN) and the “National Food and Nutrition Policy”
- 3c. Enumerate ten (10) stakeholders (ministries and agencies) who came together to develop the National Plan of Action for Nutrition
  
- 4a. Who are the main vulnerable groups in emergency situation? (2 marks)
- 4b. Differentiate between the household income and expenditure survey method and the and the Food and Agriculture Organization method of measuring food security
- 4c. Illustrate the concept of food and nutrition security

#### QUESTION FOUR

4(a) With relevant illustrations, describe how conductometric titration can be applied to acid-base titration (11 mark)

4(b) Briefly describe specific and molar conductance, clearly stating the relationship between them. (9 marks).

#### QUESTION FIVE

5(a) Mention the name of the instrument used for conductivity measurement and briefly describe how it works (12 marks)

5(b) Assuming you were given a liquid sample to be analysed for an alkali metal (e.g. potassium), state the name of the instrumental method and the instrument you would use? Give a schematic diagram of the instrument (8 marks)

- c) Enumerate any five markup tags in web design. (5 marks)
- d) State the differences between the internet and world wide web (5 marks)

### QUESTION 5

- a) Explain the concept of search Engine? (3 marks)
- b) Enumerate six (6) types of JavaScript operators. (6 marks)
- c) Enumerate four (4) examples of search engines. (4 marks)
- d) Write an HTML code segment to generate a table of professional league football results with the following column headings: TEAM, P, W, L, D, GF, GA, PTS and GD. Include sample data for any THREE teams (Hint: P=play, W=won, L=lost, D=Draw, GF=Goals for, GA= Goals against, PTS= Points, GD= Goals Difference. (7 marks)