

**BOWEN UNIVERSITY, IWO**  
**COLLEGE OF HEALTH SCIENCES**  
**NUTRITION AND DIETETICS PROGRAMME**  
**2023/2024 FIRST SEMESTER EXAMINATION**

**COURSE CODE: NTD 411**  
**CREDIT UNIT: 2**  
**TIME: 2 HRS**

**COURSE TITLE: RESEARCH METHODS IN**  
**NUTRITION AND DIETETICS**  
**INSTRUCTION: ANSWER FOUR QUESTIONS (At**  
**least TWO from each section)**

**Section A**

1. a. Explain the following terms:
  - i) Qualitative Research method 3marks
  - ii) Quantitative Research method 3marks
  - iii) Research ethics 3marks
- b. List three importance of literature review 4.5marks
- c. List four search engines for research articles 4marks
  
- 2 a. Mr. Adu is a postgraduate student at the University of Nile, in North American. He heard about the twinning issue in Igbo-Ora and wants to carry out a research to determine the different culture, eating habits and factors responsible for twinning birth in Igbo-Ora. Explain the type of sampling method to be used for this study and give two reasons. 5marks
- b. List five types of study design used in a quantitative study 2.5marks
- c. List five types of research ethics 5marks
- d. Mention five things a methodology section should contain in report writing. 5marks
  
- 3 a. Differentiate between the following:
  - i. Convenience sampling and purposive sampling 4marks
  - ii. Systematic and Random sampling 4marks
- b. Mention two things to consider in the selection of a research topic 2marks
- c. i) What is research methodology? 2.5marks
- ii) List five items to be included in a research proposal 5marks

**Section B**

4. a. i) Write briefly on sample size estimation. 5marks
- ii) Write on three factors that are required to specify sample size. 4.5marks
- b. A researcher wants to carry out a descriptive study to understand the prevalence or proportion of diabetes mellitus among adults in a city. A previous study stated that diabetes in the adult population was 40%. At 95% CI and 5% margin of error, calculate the sample size required to conduct other new research? 8marks
  
5. a. List five attributes of research 2.5marks
- b. Write briefly on the following:
  - i) Animal models in nutrition research 5marks
  - ii) Community trial 5marks
  - iii) Case-control studies 5marks

6. a. Mention five limitations of cohort design 2.5marks
- b. Write briefly on the following qualitative research techniques:
- i) Focus group discussion 5marks
  - ii) Interviews 5marks
  - iii) Observation 5marks