

NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCE

2023 1 POP EXAMINATION...

COURSE CODE: ESM304 TIME: ALLOWED: 2HRS

CREDIT UNIT: 2

COURSE TITLE: RESEARCH METHODS AND FIELD TRIP

Instruction: Attempt question number ONE (1) and any other THREE (3) questions.

- 1. Mention and discuss in details any FIVE essential elements of research (25marks).
- 2. Formulating research problem is the first and foremost step in the research process. Discuss. (15marks)
- 3a. What is a research proposal? (5marks)
- 3b. Justify the need for research proposal (10marks).
- 4. Differentiate between pure and applied research. (15marks)
- 5. Write notes on the following: (a) Explanatory Research (b) Correlation Research. (15marks)
- 6. (a) Identify and formulate a research problem in Environmental Science (8marks)
- (b) Explain the sampling techniques that will be most appropriate for your study. (7marks)