



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF SCIENCES
DEPARTMENT OF ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT
Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
2025_2 EXAMINATIONS

COURSE CODE: ESM 304

COURSE TITLE: RESEARCH METHODS

CREDIT: Units

TIME ALLOWED: 3 Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) carries 25 marks, while the other questions carry 15 marks each.

1. a. List some of the questions that may readily come to mind as a worker in the oil and gas industry (**8 marks**)
b. Explain the term Literature Review (**10 marks**)
c. Explain reference section in research writing
- Usually the last after chapter five (**7 marks**)
- 2.a. Name the classes of research study on the basis of the perspective of its objectives (**4 marks**)
b. Explain Research Design (**11 marks**)
3. a. What are the things a research proposal must tell the reader? (**6 marks**)
b. List the steps to writing research proposal (**7 marks**)
c. Describe Scientific Method in research (**2 marks**)
- 4.a. What do you understand by data collection schedule? (**11 marks**)
b. Explain the Appendices section of a research. (**4 marks**)
5. Briefly explain research methodology (**15 marks**)
- 6.a. Distinguish between bibliography and referencing. (**6 marks**)
b. How can others help you in writing your proposal? (**5 marks**)
c. What is research? (**4 marks**)