**

**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**Plot 91, Cadastral Zone, NnamdiAzikwe Expressway, Jabi, Abuja**

**FACULTY OF SCIENCES**

**DEPARTMENT OF ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT**

**JULY EXAMINATIONS 2017**

**COURSE CODE: ESM 304 TIME: 2HRS 30MINS**

**COURSE TITLE: RESEARCH METHODS AND FIELD TRIP 3 UNITS**

**INSTRUCTION: Attempt Question 1 and any other FOUR questions**

1. (a) Mention FIVE research instruments designed to measure environmental variables. (10marks)

(b) Outline THREE perspectivesunder which research can be classified (6marks)

(c) Name the first THREE chapters that a researcher can convert his/her research proposal into (6marks)(22marks).

2a. As an environmentalist, set research questions that will answer the waste disposal problem in your environment(8marks)

2b. How do you know a researchable question (4marks)

3a.Write an abstract that will present a clear idea of what the entire research (article or project) is about(8marks)

3b. what are the essentials of an abstract (4marks)

4.Write short notes on the following: (a) Methodology (b) Literature review (c) Results (12marks)

5a. Differentiate between pure and applied research(8marks)

5b. Justify why any of these researches is preferable used in environmental sciences (4marks)

6a. What happens to a research proposal after the research work has been completed(8marks).

6b. Justify if field trip is a research work or not (4marks)