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**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2016/2017**

**YEAR III SPECIAL/SUPPLEMENTARY EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL MICROBIOLOGY**

**MMB 2311: RESEARCH METHODOLOGY AND DATA ANALYSIS**

**DATE: SEPTEMBER 2017 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE (30 MARKS)**

1. Define a researcher. [3 marks]
2. Explain the term data collection. [2 marks]
3. Describe the term research methodology. [3 marks]
4. Using an example, explain the term experiment. [3 marks]
5. Referring to research design, explain the term control. [3 marks]
6. Differentiate between dependent and independent variables. [3 marks]
7. Distinguish between primary and secondary data. [3 marks]
8. Explain an extraneous variable. [3 marks]
9. Using a flow diagram, describe the research process. [3 marks]
10. State the essentials of a good questionnaire. [4 marks]

**QUESTION TWO (20 M ARKS)**

Discuss the basic research concepts.

**QUESTION THREE (20 MARKS)**

Referring to research presentation, answer the following questions;

1. The purpose of the introduction. [10 marks]
2. Results and implications of results. [10 marks]

**QUESTION FOUR (20 MARKS)**

Distinguish between research methods and research methodology.