



**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2016/2017**

**THIRD YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF  
SCIENCE IN STATISTICS, ACTUARIAL SCIENCES  
AND  
FINANCIAL ENGINEERING**

**STA 2313/HRD 2114: RESEARCH METHODOLOGY FOR STATISTICS/ RESEARCH  
METHODOLOGY**

**DATE: JUNE 2017**

**TIME: 2 HOURS**

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**INSTRUCTIONS TO CANDIDATES:**

- 1. Answer questions ONE (section A) and any two questions in section B*
- 2. Be neat and show all your workings*
- 3. All questions except question one carry equal marks*

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This paper consists of 4 printed pages

STACS Examination board 2016/2017

**Question One (30 Marks)**

- a) Discuss THREE challenges that a university student may face when writing a literature review. Suggest possible solutions in each case. [6 Marks]
- b) Briefly describe the following research designs, giving ONE advantage and disadvantage of each [12 Marks]
- i. Field experiment
  - ii. Case study design
  - iii. Ex Post Facto design
- c) In defining the research problem, what would you consider as the salient features of a good problem statement. [6 Marks]
- d) "Processing of data implies editing, coding, and tabulation". Describe in brief these three operations pointing out the significance of each in context of research. [6 Marks]

**Question Two (20 Marks)**

Define what is sampling and illustrate five probability sampling techniques a researcher can use in quantitative research. [20 Marks]

**Question Three (20 Marks)**

As the county director, discuss the criteria you would use when evaluating a research report under the following sub-headings: Title, Abstract, Background, Problem statement, Hypothesis, General and specific objectives, Study justification, Literature Review, Materials and Methods, Results, Discussion and Conclusion [20Marks]

**Question Four (20 Marks)**

- a) Define the term interview and discuss various interview techniques that you can employ in your research. [10 Marks]
- b) Explain in detail why it is necessary to pretest a questionnaire prior to data collection exercise. [5 Marks]
- c) Given a journal article: "Factors influencing Mitumba Business in Kibera Slums of Nairobi city, Kenya," by Joyce Munene and Khasiani N. Wycliffe published in journal of business education the year 2004, Volume 6 Number 2, from 47 to 63. Present the reference in APA method. [3 Marks]
- d) Plagiarism is considered "theft". Discuss [2 Marks]