



TECHNICAL UNIVERSITY OF MOMBASA

Faculty of applied and health sciences

DEPARTMENT OF PURE AND APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ANALYTICAL CHEMISTRY (DAC14S)

AAB 2204 RESEARCH METHODS

END OF SEMESTER EXAMINATION

SERIES: April 2016 PAPER-B

TIME: 2 HOURS

DATE: MAY 2016

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of Choose No questions. Attempt Choose instruction.

Do not write on the question paper.

Question ONE

- | | |
|--|---------|
| a) Outline FOUR sources of literature review | 4 marks |
| b) List statistical packages of analyzing data | 4 marks |
| c) Name components of a research proposal | 4 marks |
| d) List FOUR criteria needed to be specified to determine appropriate the samples size | 4 marks |
| e) Explain FOUR purposes of research | 4 marks |
| f) State FOUR Advantages of sampling | 4 marks |
| g) List FOUR methods of data collection | 4 marks |
| h) State the choice of judgmental sampling | 2 marks |

Question TWO

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| (a) Explain the probability sampling techniques for the following: | |
| (i) Simple random | 7 marks |
| (ii) Stratified random | 8 marks |

Question THREE

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| (a) Outline the advantages of true experimental design | 7 marks |
| (b) Describe typical quantitative data gathering strategies | 8 marks |

Question FOUR

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| (a) Explain the purpose of literature review | 8 marks |
| (b) Outline the advantages of research questionnaires | 7 marks |

Question FIVE

- (a) Explain the details included in the covering letter of the questionnaire 8 marks
- (b) Discuss conditions which lead to the use of Non-probability sampling 7 marks