TECHNICAL UNIVERSITY OF MOMBASA

Faculty of applied and health sciences

DEPARTMENT OF PURE AND APPLIED SCINCES UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ANALYTICAL CHEMISTRY (DAC14S)

AAB 2204 RESARCH METHODS

END OF SEMESTER EXAMINATION

SERIES: April 2016 PAPER-A

TIME:2HOURS

DATE:MAY2016

Instructions to Candidates

Question THREE

You should have the following for this examination

-Answer Booklet, examination pass and student ID

(a) Explain the sampling methods of the following:

(i)cluster random sampling

This paper consists of Choose No questions. AttemptChoose instruction.

Do not write on the question paper.

Question ONE a) State the importance of conducting a pilot study. 4 marks b) Describe FOUR qualities of standard research proposal 4 marks c) Name FOUR criteria used to classify a true experimental design 4 marks d) Explain the meaning of probability sampling 4 marks e) State the advantages of Quasi-experimental design 4 marks f) State FOUR advantages of randomized control trials 4 marks g)Explain the selection of sample size 4 marks h)State sources of primary data 2 marks **Question TWO** (a)Outline the disadvantages of true experimental design 7 marks (b)Explain the stages of conducting an experiment 8 marks

7 marks

| (ii)systematic random sampling | 8 marks |
|---|---------|
| Question FOUR | |
| (a)Explain the qualities of a good objective | 7 marks |
| (b)Describe situation in which Non-probability sampling is applicable | 8 marks |
| Question FIVE | |
| (a)Describe steps in recruiting the appropriate research sample | 8 marks |
| (b)Outline the disadvantages of research questionnaires | 7 marks |