

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF POSTGRADUATE DIPLOMA IN
EDUCATION**

PGDE 743: RESEARCH METHODS IN EDUCATION

STREAMS: PGDE PART TIME

TIME: 2 HOURS

DAY/DATE: TUESDAY 07/08/2018

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- **Answer question one and any other two.**
- **Do not write on the question paper.**

- Q1. (a) Identify and explain three types of hypotheses. (6 marks)
- (b) Students scored the following in mathematics in schools 10, 20, 22, 22, 30, 25, 20, 28, 24, 15, 22 Calculate the mean, median and mode. (6 marks)
- (c) Explain briefly descriptive and explanatory types of research in social sciences. (4 marks)
- (d) Distinguish between the following concepts as used in research. (6 marks)
- (i) Qualitative and quantitative research
 - (ii) Research design and research methodology
 - (iii) Dependent variable and independent variable
- Q2. (a) Discuss secondary sources of literature in research. (12 marks)
- (b) Explain advantages of open-ended questions in research. (8 marks)
- Q3. (a) Describe six purposes of hypothesis citing characteristics of a good hypothesis. (12 marks)
- (b) Differentiate non parametric and parametric statistics. (4 marks)
- (c) Outline four types of non-probability sampling. (4 marks)

- Q4. (a) Identify and explain three methods of random sampling in research. (6 marks)
- (b) Explain three ethical considerations that researchers must observe. (6 marks)
- (c) Identify major topics of a research proposal. (8 marks)
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