



KENYATTA UNIVERSITY

CONTINUING EDUCATION PROGRAMME (CEP) 2022/2023

EXAMINATION FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN
EDUCATION

EMP 901: ADVANCED RESEARCH METHODOLOGY

DECEMBER 2022 SESSION

TIME: 3 HOURS

INSTRUCTIONS: Answer question ONE and any other TWO

Question One (20 marks)

Identify an educational research issue that is of concern to educationalist, hence.

- (a) State relevant topic that contains both independent and dependent variable. (2 marks)
- (b) Write a statement of the problem (6 marks)
- (c) Develop TWO research objectives (4 marks)
- (d) Develop a conceptual framework for your study (4 marks)
- (e) Describe the most appropriate research design for the research problem (4 marks)

Question Two (15 marks)

Explain true experimental and quasi experimental research study, giving a suitable case in education.

Question Three (15 marks)

Using a relevant example in Education, describe the application of the following mixed methods approaches.

- (a) Convergent parallel design (5 marks)
- (b) Exploratory sequential design (5 marks)
- (c) Explanatory sequential design (5 marks)

Question Four (15 marks)

Discuss the application of the following qualitative approach in education

- (a) Narrative research study (8 marks)
- (b) Case study research study (7 marks)

Question Five (15 marks)

- (a) Demonstrate the application of content validity estimate to improve the quality of quantitative research instrument (6 marks)
- (b) Distinguish between probability sampling and non-probability sampling techniques in education. (9 marks)