

UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS YEAR ONE SEMESTER ONE EXAMINATION

FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (INFORMATION TECHNOLOGY)

COURSE CODE : PIT 912

COURSE TITLE: ADVANCED RESEARCH

METHODS IN COMPUTING

DATE: 17/08/2023 TIME: 8.00 A.M - 11.00 A.M

INSTRUCTIONS TO CANDIDATES
ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

- a. Distinguish between ontology and epistemology as used in research philosophy and justify why they are important in research. [4 marks]
- b. With examples distinguish between descriptive and inferential statistical data analysis techniques.

[6 marks]

c. Explain a strategy you can use to write a research proposal abstract.

[3 marks]

Differentiate between mediating and moderating variables as used in research.

[4 marks]

e. Describe two mechanisms you can use to enhance the quality of research.

4 marks

In terms of ontology, epistemology, axiology, and typical methodology, compare and contrast positivism and interpretivism.

[9 marks]

QUESTION TWO [15 MARKS]

Semi-Structured Interviews and Focus Group discussion techniques of data collection. Briefly explain the conditions under which it is appropriate to use each of them. [15 marks]

QUESTION THREE [15 MARKS]

Briefly explain any four key elements of a proper epistemology.

[8 marks]

State and explain the Essential Elements of an Experimental Research Design.

[7 marks]

QUESTION FOUR [15 MARKS]

Describe how a theoretical framework should be formulated in a study.

[6 marks]

b. Explain what conceptual framework is and its importance in research.

[5 marks]

Based on the above explanation, describe how the conceptual framework can be formulated in a [4 marks] study.

QUESTION FIVE [15 MARKS]

a. Explain the technique you can use to bring out the gap in your study.

[3 marks]

b. There are four distinct stages for you to exhibit in your text before your readers will recognize and accept your theory-based arguments in the literature review. Discuss the Four Analysis Tasks of the Literature Review. [12 marks]

QUESTION SIX [15 MARKS]

Briefly explain the elements that you will consider in the following research proposal section.

a. Introduction

5 marks

b. Statement of the problem

[5 marks]

c. Significance of the study

[5 marks]