

**THE PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY
DEPARTMENT OF COMMUNICATION & DEVELOPMENT STUDIES**

EXAMINATION QUESTION PAPER: Semester 1, 2020

COURSE: ADVANCED RESEARCH METHODS

CODE: MCS 503

DATE: June 22, 2019 **TIME:** 9:00 – 12:00 a.m. **VENUE:** CDS Dept. Room 209

SUBJECT EXAMINER: Dr Rachel AISOLI-ORAKE

EXAMINATION INSTRUCTIONS:

1. **You have 3 HOURS to do the EXAM.** You will be given **10 minutes** 'Reading Time' before the Exam begins. In the last 30minutes, **NO ONE is allowed** to leave the Exam Hall.
2. There are **THREE SECTIONS with SEVEN QUESTIONS** in this Exam Paper with a total of **100 Marks**. You are to answer **ALL** questions. Next to each question, the marks are indicated. **DO NOT** turn over this page until you are told to do so.
3. **ALL ANSWERS** must be written in the EXAMINATION ANSWER BOOKLET provided. No other written materials will be accepted. You **ARE ALLOWED** to take the EXAMINATION QUESTION PAPER with you at the end of the exam.
4. **NO MOBILE PHONES and BAGS** are allowed in the Exam Hall. **ONLY** your stationery (i.e., ruler, biros) is allowed.
5. **RULE a line through any mistakes;** correction fluid is not required.
6. Check that you have pages **1 to 4** in your Exam Question Paper.
7. **NOW turn to your Examination ANSWER BOOKLET cover page and fill-in the required details.**

SECTION 1: Definitions (20 marks)

QUESTION 1:

There are 10 concepts below. Define or explain ONLY five of them with reference to Social Science Research in a **paragraph** of 4 – 5 sentences **(4 marks each)**

1. theories
2. paradigm
3. research
4. sampling
5. research design
6. experimental research
7. validity and reliability
8. probability sampling
9. triangulation
10. case study

SECTION 2: Short Answers (40 marks)

In 100 - 150 words, respond to the following questions:

QUESTION 2: (10 marks)

All **scientific research** involves the processes of *observation*, *rationalization* and *validation*. Explain.

QUESTION 3: (10 marks)

Describe the following terms and state how they are used in **research**;

- *Research methodology*
- *Research design*
- *Target population*
- *Research instruments*

QUESTION 4: (10 marks)

The essential characteristics of a **true experimental research design** are; *manipulation*, *control* and *randomization*. Explain.

QUESTION 5: (10 marks)

In social science, there are a number of **research designs** that can be classified into two categories; *positivist* and *interpretive*. Explain the differences between the categories and give examples of three designs within each category.

SECTION 3: Essay Questions (40 marks)

Based on the following *research problem* statement below, answer Questions 6 and 7 according to the given instructions.

Research Problem:

A sociologist is interested in understanding the lives of homeless people in Lae city. In order to develop an understanding of this population and to see the world from the homeless' perspective, he lived on the streets with the homeless for a full year. The researcher considers developing a theory about how the homeless become homeless and how they manage to survive without stable income or shelter.

QUESTION 6: A Brief Research Proposal (20 marks)

In 2-3 pages justify and discuss the following aspects in a *Research Proposal* in relation to the research problem stated above:

- Research objectives and Research Questions.
- Research design.
- Sample population.
- Sample frame.

QUESTION 7: Data Analysis in Qualitative Research (20 marks)

Discuss the *process of data analysis* in qualitative research, including *exploring the data, developing themes* from the data, *coding data* and *connecting themes*. There are six steps.

******* End of Examination Paper! *******