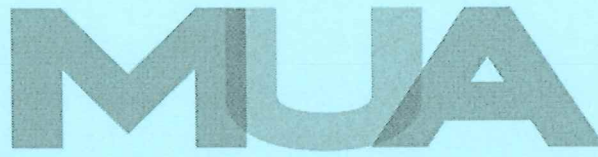


The
Management
University
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POSTGRADUATE UNIVERSITY EXAMINATIONS
SCHOOL OF MANAGEMENT AND LEADERSHIP
DEGREE OF DOCTOR OF PHILOSOPHY IN MANAGEMENT AND
LEADERSHIP

DML 902: ADVANCED RESEARCH METHODOLOGY

DATE: 4TH APRIL 2023

DURATION: 3 HOURS

MAXIMUM MARKS: 50

INSTRUCTIONS:

1. Write your registration number on the answer booklet.
2. **DO NOT** write on this question paper.
3. This paper contains **FOUR (4)** questions.
4. Question **ONE** is compulsory.
5. Answer any other **TWO** questions.
6. Question **ONE** carries **30 MARKS** and the rest carry **10 MARKS** each.
7. Write all your answers in the Examination answer booklet provided.

QUESTION ONE: CASE STUDY

Read the following case and attempt the questions that follow:

"It is an onerous task to conduct a doctoral study" observed John "Yes, John, I have no clue what it will take to pull it through now that coursework is behind us", commented Jane.

The conduct of research is preceded by the researcher's world view of the nature and how best to discover the truth about a phenomenon or research issue/ problem.

It is towards the end of the semester preceding research period and students are not only thinking about what to study by how to study it.

Two doctoral students, John and Jane wish to conduct a study each that would lead to the development of a doctoral thesis. While John intends to study leaders' emotions during crisis, Jane is interested in why leader behaviour may relate with success or failure of organisations. Both John and Jane have approached their professors with their respective ideas. The professors would like them to make a presentation that demonstrates their conceptual clarity of the studies they intend to conduct. It is not surprising that a discussion on what to study, why and how to study dominated a previous last class...the need for clarity on how to transition to research phase is more urgent than before and any insights into this is invaluable.

Required

- a) Develop a concept note demonstrating a philosophical leaning, paradigm and other related aspects for John's study and justify your choices **(8 marks)**
- b) Develop a concept note demonstrating a philosophical leaning and paradigm among other aspects for Jane's and justify your choices **(8 marks)**
- c) In each of the two cases, discuss the applied implications of the study **(6 marks)**
- d) Suppose John is planning a survey for his study to determine the mean amount of time corporation executives are emotionally charged during a crisis and a pilot survey indicates that the mean time per week of crisis is 12 hours, with a standard deviation of 3 hours. It is desired to estimate the mean time of high emotion within one-quarter of an hour and that the 95% degree of confidence is to be used, how many executives should be interviewed? **(8 marks)**

QUESTION TWO

a) There are various analytical techniques that a researcher can use to analyse database. Using an example of a management or leadership research setting, discuss the assumptions and suitability of any one of the techniques **(5 marks)**

b) A doctoral student conducted a study on the relationship between variable A (predictor/independent) and variable B (response/ dependent variable) and obtained the following results:

$B = -1.667$, $p = .006$, $OR = 3.061$. (NB: OR = Odds ratio) **(3 marks)**

c) Suppose A is "supervision"/"oversight" and B is "employee engagement" in an organization, what applied recommendations would you give to the concerned organisation **(2 marks)**

QUESTION THREE

You are required to take a sample of 1,000 from the following population. The age structure of a particular company's workforce has been presented as follows:

	Low income	Middle income	High income
Women			
Less than 30 yrs	5,000	3,000	1,500
More than 30 yrs	3,000	2,000	800
Men			
Less than 30 yrs	4,500	3,500	1,800
More than 30 yrs	2,000	2,500	900

- i. Explain how you would apply the simple random sampling method to come up with the required sample; **(3 marks)**
- ii. Do you consider this to be the most appropriate method of obtaining the sample? If not, which method would you prefer to use and how should it be applied? **(5 marks)**

- iii. Suppose you would like to determine whether the one of two playing locations is preferred by children. What test would you conduct? Why? (2 marks)

QUESTION FOUR

- a) Explain the content of a research report (4 marks)
- b) Distinguish between parametric and non-parametric tests in research (2 marks)
- c) Discuss "knowledge gap" as used in research and discern its relationship with hypothesis and theory building (4 marks)