



ZIMBABWE EZEKIEL GUTI UNIVERSITY

COLLEGE OF LIFELONG LEARNING

EXAMINATION PAPER

MODULE CODE : DUWC125
MODULE TITLE : RESEARCH METHODS
DURATION : 3 Hours
LEVEL : 1.1
DATE :

INSTRUCTIONS TO CANDIDATES:

1. No cell phones are allowed in the examination venue.
2. Use of silent, non-programmable calculators is allowed
3. Answer **Question 1** and any other **one** in Section B.
4. Begin each question on a new page.
5. The number of marks for each question or part question is shown in brackets []
6. Show all workings, where applicable.

SECTION A (Compulsory)

Question 1

Dr. Truce was investigating the effect of a compensatory education program in mathematics for first-grade students. This study gave a standardized math achievement test to all first-grade students and then placed these students in the compensatory education program and administered the program for the next 6 weeks.

At the end of the 6-week period, he again administered the standardized math achievement test to these students. However, the company from which he purchased the standardized math achievement test had developed an updated and revised form, which was supposed to be better, so he used the new form for the post test and found that the students had significantly increased their math score at post testing time. Therefore, Dr. Truce concluded that the compensatory program was effective in remediating poor math performance.

Required:

- a) Suggest a topic and justify your choice. [6 marks]
- b) Construct a research problem. [7 marks]
- c) State at least two objectives. [4 marks]
- d) State at least two research questions. [4 marks]
- e) Justify the statistics to be calculated for the above conclusion to be reached. [10 marks]
- f) Suggest recommendations based on these findings. [4 marks]

SECTION B (Choose one question)

Question 2

There has been considerable motion devoted to the issue of the use of animals in research. The basic questions are: Should they be used, and is the harm and suffering inflicted on them justified by the benefit achieved? Animal rights people say no to both, but researchers say yes. Consider this general issue: What limits should we place on our scientific curiosity in our use of animals in research? [25 marks]

Question 3

Discuss the distinguishing characteristics of the four levels of measurement?

[25 marks]

Question 4

Consider each of the following situations and identify the presumed cause and the presumed effect. Then discuss the likelihood that the presumed cause actually did produce the observed effect. Explain why someone might think these two variables were causally related and then consider the fact that other variables could also have produced the effect.

- a) The Republicans passed a law giving a tax break that benefits wealthy Americans. Shortly after the tax break went into effect, the stock market went down, and the economy went into a recession. The Democrats claimed that the tax break caused the economic decline and attempted to repeal the tax break.

[12 marks]

- b) Rudo purchased a new piece of software for his computer and installed it immediately. The next time she started her computer, it froze up on her, so Rudo concluded that it was the software that caused the computer to freeze.

[13 marks]

--- The End ---

---Asanteni---

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