



PROGRAM: BACHELOR OF
ENVIRONMENTAL HEALTH

SUBJECT: RESEARCH METHODOLOGY MODULE A

CODE: RMENVA2

DATE: 04 JUNE FINAL EXAMINATION
2018

DURATION: 3 HOURS

WEIGHT: 50:50

TOTAL MARKS: 150

EXAMINERS: MR. T.P MBONANE

MODERATORS: MS R. VAN WYK

NUMBER OF PAGES: 3 PAGES

INSTRUCTIONS TO STUDENTS:

1. ANSWER ALL THE QUESTIONS.
2. READ YOUR QUESTIONS CAREFULLY. YOU WILL BE PENALISED IF YOUR ANSWERS ARE NOT PROPERLY STRUCTURED AND NUMBERED.

LEAVE SPACE IN BETWEEN THE ANSWERS.

QUESTION 1**Define the following concepts:**

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|-----|------------------------|-------------|
| 1.1 | Descriptive statistics | (3) |
| 1.2 | Internal validity | (3) |
| 1.3 | Sample size | (3) |
| 1.4 | Frequencies | (3) |
| 1.5 | Ethical considerations | (3) |
| | | [15] |
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QUESTION 2

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|-----|--|-------------|
| 2.1 | Describe the six (6) difficulties associated with writing literature reviews that a researcher must guard against. | (5) |
| 2.2 | What is the purpose of conducting a review of literature as a researcher? | (5) |
| 2.3 | You are tasked to conduct a literature review as a co-researcher in your research team, how will you conduct a review? | (7) |
| 2.4 | What will you benefit by conducting a thorough literature review? | (5) |
| 2.5 | Differentiate between descriptive and analytical studies. | (8) |
| | | (30) |
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QUESTION 3

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|-----|---|-------------|
| 3.1 | Why must you conduct a research? | (6) |
| 3.2 | Describe the differences between the qualitative and quantitative approaches | (8) |
| 3.3 | List nine (9) components of a research protocol. | (9) |
| 3.4 | What are the steps involved in conducting a research project? | (11) |
| 3.5 | List six (6) obstacles that can hinder a researcher from completing a research projects assigned to them. | (6) |
| | | [40] |
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QUESTION 4

- 4.1 What is the purpose of a research design? (3)
- 4.2 Differentiate between qualitative and quantitative research designs. (7)
- 4.3 Discuss the types of non-experimental designs. (8)
- 4.4 Discuss five (5) qualitative data collection methods. (5)
- 4.5 What are the disadvantages of using a quasi-experiment? (2)
- 4.6 What are the factors that you must consider for an experimental design? (3)

[28]

QUESTION 5

- 5.1 Discuss methods of random sampling. (8)
- 5.2 Why do you need to sample as a researcher? (4)
- 5.3 What are the factors affecting the inferences of samples? (2)
- 5.4 What are the guidelines for developing or deciding on a research instrument? (5)
- 5.5 Discuss steps for developing /designing a questionnaire (18)

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TOTAL MARKS 150