



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES

DEPARTMENT AGRICULTURE AND NATURAL RESOURCES SCIENCES

QUALIFICATION : BACHELOR OF NATURAL RESOURCE MANAGEMENT HONOURS (NATURE CONSERVATION)	
QUALIFICATION CODE: 06BHNC	LEVEL: 6
COURSE: BASIC RESEARCH METHODOLOGY	COURSE CODE: BRM620S
SESSION: JANUARY 2020	PAPER: THEORY
DURATION: 3 (THREE) HOURS	MARKS: 100

SUPPLEMENTARY/ SECOND OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	MR. T. NZUMA DR. B. MHANGO
MODERATOR:	PROF. B. STROHBACH

<p style="text-align: center;">INSTRUCTIONS</p> <ol style="list-style-type: none">1. Answer ALL the questions.2. Write clearly and neatly.3. Number the answers clearly.

PERMISSIBLE MATERIALS

1. All written work **MUST** be done in blue or black ink
2. No books, notes and other additional aids are allowed

THIS QUESTION PAPER CONSISTS OF 4 PAGES (Including this front page)

Section A: ANSWER ALL QUESTIONS

MULTIPLE CHOICE (1 mark each)

Choose correct/best answer. Do not write the answer out. Write down the relevant letter. E.g. 1.1 A.

Question 1

[10]

1.1 _____ establishes scientific writing.

- A. Logical conclusion
- B. Illogical Conclusion
- C. Personal prejudice
- D. Misplaced learning

1.2 Which is not basis for a Scientific Writing?

- A. Facts
- B. Tests
- C. Personal prejudices
- D. Experiments

1.3 What will you not find in an abstract?

- A. Citations
- B. Background
- C. Results
- D. Methods
- E. Information not contained in the paper

1.4 In a scientific report which of these must be avoided.

- A. Facts
- B. Logical conclusion
- C. Objective evaluation
- D. Subjective evaluation

1.5 We, us and our are examples of;

- A. Contractions
- B. Pronoun usage
- C. Name usage
- D. Noun

1.6 This is the information supplied by ELSEVIER for an article in a journal:

Diverse, Unforeseen, and Quaint Difficulties: The Sensible Responses of Novices Learning to Follow Instructions in Academic Writing

Macbeth, Karen P. Research in the Teaching of English 41.2 (Nov 2006): 180–207.

What is the title of the journal?

- A. Diverse, Unforeseen, and Quaint Difficulties: The Sensible Responses of Novices Learning to Follow Instructions in Academic Writing.
- B. Research in the Teaching of English. Urbana
- C. Diverse, Unforeseen, and Quaint Difficulties
- D. Research in the Teaching of English

1.7 A list of illustrations, included; figures and tables, placed on;

- A. Abstract vision
- B. Title page
- C. Table of contents
- D. Bottom line

1.8 Which of these is not a parameter in a scientific writing?

- A. Extent of information
- B. Quality of information
- C. Age of writer
- D. Ability to acquire information

1.9 All reference list items include:

- A. The place of publication of the source.
- B. The page numbers of the source.
- C. The full bibliographic details required for the particular type of source that is being referenced.
- D. The authors, the year, the title of the source, the place of publication and the publisher.

1.10 When you paraphrase an idea you may:

- A. Use synonyms for many of the words.
- B. Use any of the disciplinary terminology from the original source.
- C. Write a longer or shorter sentence than the original.
- D. All of the above

Question 2

[40]

2.1 Name and describe the contents of each section in a research report.

[20]

2.2 How would a research report differ from a project proposal

[20]

SECTION B: ANSWER ALL THE QUESTIONS

MULTIPLE CHOICE (2 marks each)

Question 3

[10]

The figures below represent average monthly incomes of farm workers across the 13 regions in Namibia in Namibian dollars (N\$).

2,710	2,940	4,000	3,130	2,880	2,890	2,920	3,050	2,950	3,325	2,880	2,850	2,755
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

The ministry of agriculture has been requested to assess these incomes and come up with an average income value as the minimum wage for farm workers.

- a) What would be the minimum wage based on existing incomes? [4]
- b) A farmer decides that he will pay his workers 25% above the minimum wage, what will be the income of farm worker in this case? [4]
- c) How much extra income will the farm workers in (b) above be earning compared to the proposed minimum wage in (a) above? [2]

QUESTION 4

[10]

The data presents weight gain (in kg) of 14 zebras in Etosha over a period of 4 years:

7.6	8.1	9.2	6.8	5.9	6.2	6.1	5.8	7.3	8.1	8.8	7.4	7.7	8.2
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

- a) Construct a stem-and-leaf plot and find the median and maximum weight gain by the zebras over the 4 years. [5]
- b) Construct a box-whisker plot of the data. [5]

QUESTION 5

[30]

The table below is a grouped frequency distribution of students' marks obtained in a conservation agriculture final examination. Based on the information in the table below answer questions a to f.

Performance Level	Percentage Class	Frequency
1	0-29	4
2	30-39	5
3	40-49	11
4	50-59	8
5	60-69	5
6	70-79	11
7	80-100	11

- a) How many students were assessed? [3]
- b) Determine the class width. [3]
- c) Determine the class mid-point values for all the classes. [7]
- d) Provide the tallies for each class [7]
- e) Find the variance and standard deviation [5]
- f) Plot an appropriate graph to present the frequencies for each percentage class [5]

THE END

Total Marks: 100