



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

SCHOOL OF AGRICULTURE AND NATURAL RESOURCE SCIENCES

DEPARTMENT OF NATURAL RESOURCES SCIENCES

QUALIFICATION: BACHELOR OF NATURAL RESOURCES MANAGEMENT	
QUALIFICATION CODE: 07BNRS	LEVEL: 7
COURSE CODE: WMH620S	COURSE NAME: WILDLIFE MONITORING AND HANDLING
DATE: JANUARY 2025	
DURATION: 3 HOURS	MARKS: 150

SECOND OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	Mr. Helmuth Tjikurunda & Mrs. Louise Theron
MODERATOR:	Mr. Jeremia Amutenya

INSTRUCTIONS
1. Answer ALL the questions. 2. Write clearly and neatly. 3. Number the answers clearly.

PERMISSIBLE MATERIALS

1. Examination question paper
2. Answering book
3. Calculator and Ruler

THIS QUESTION PAPER CONSISTS OF 3 PAGES (Excluding this front page)

QUESTION 1

Write short notes to define or explain the following terms:

- 1.1. Road Strip Count (2)
 - 1.2. Transportation Crate (2)
 - 1.3. Quantitative data (2)
 - 1.4. Wildlife Technology (2)
 - 1.5. Geofences (1)
 - 1.6. Nutrition (1)
- [10]**

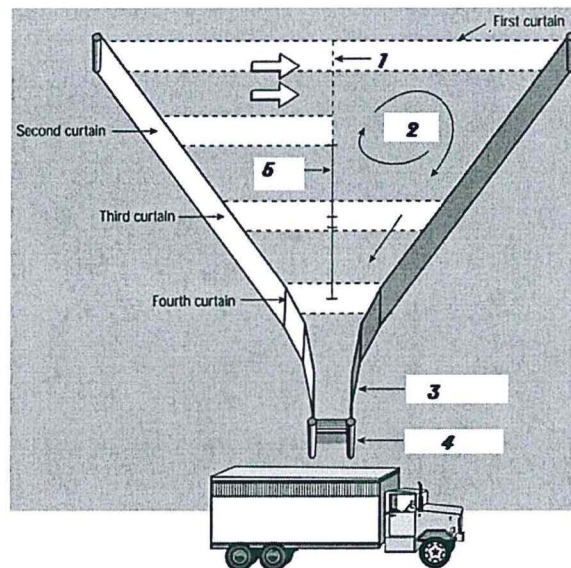
QUESTION 2

- 2.1. The full moon waterhole game counts is a wildlife monitoring technique preferred by most game farmers who keep elusive water-dependent wildlife. **Explain** in detail how a full moon waterhole game count is conducted. (15)
- 2.2. There are six elements of adaptive management, as discussed in class. **Name** and **explain** these elements. (12)

[27]

QUESTION 3

- 3.1. The mass capture boma method is preferably and mostly used to reduce costs and ensure a successful capture. **Provide six (6)** guidelines to which mass capture bomas should adhere. (6)
- 3.2. Several factors contribute to the worsening of stress in captured animals. **List seven (7)** of these factors. (7)
- 3.3. Study the diagram below showing the set-up (capture boma) used to capture wild animals. **Label the different sections** represented by the numbers 1-5 on the diagram below. (5)



- 3.4. **Define** the term capture myopathy and **provide** one symptom an animal suffering from it might show. (4)
- 3.5. **Explain** the causes of capture myopathy during a) mass boma and b) chemical capture methods. (9)

[31]

QUESTION 4

- 4.1. Holding facilities are an essential part of wildlife monitoring and handling to ensure close observation of wild animals, that cannot be released immediately. **List 6** factors to consider when constructing a holding facility/pens for wild animals. (6)
- 4.2. Water is one of the most vital nutrients for wild animals, because of the multiple functions it is used for. **Name** and **give** an example of three sources where wild animals get water from. (6)
- 4.3 The condition of animals is a key factor influencing the survival and reproductive success of wild animals.
- 4.3.1 In **which situations** is knowledge of the nutritional condition of wildlife important? (4)
- 4.3.2 **What** are the advantages of using indicators to assess wildlife conditions? (4)

[20]

QUESTION 5

- 5.1 **Provide ten (10)** criteria you will follow to inspect transport crates to ensure the welfare of the animal being transported. (10)
- 5.2 You have been appointed as the head of a Game Capture Unit within the Ministry of Environment, Forestry and Tourism. **Explain four (4)** conditions under which you may recommend animals translocated to be offloaded at night. (4)
- 5.3 **List eight (8)** factors that need to be considered before wild animals is to be offloaded from the transport crate. (8)
- 5.4 Ideally, the distance from the source to the destination of captured animals must be as short as possible. However, this is not always the case. Sometimes animals are translocated to far away place sometimes even to other countries. **List 7** factors that should be taken into account to ensure safe and humane transportation of animals via the road. (7)

[29]

QUESTION 6

- Distinguish between the following sets of terms: (8)
- a) Infectious vs Contagious diseases (2)
- b) Carrier vs Vector for a disease. (Give a proper/explanatory example for each) (4)
- c) Defoliant vs Desiccant (for a farmer) (2)

[16]

QUESTION 7

In your OWN words, explain how the digestion process of a kudu differs from that of a zebra. (9)

QUESTION 8

Give a short description of the disease Babesiosis. Explain what it is, how animals get it, immunity and resistance in cattle and how it can be treated. NO clinical signs required! (8)

TOTAL: 150 MARKS

=====END OF PAPER=====