



**PAMIBIA UNIVERSITY**  
OF SCIENCE AND TECHNOLOGY  
**FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES**

**DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES**

<b>QUALIFICATION: BACHELOR OF NATURAL RESOURCE MANAGEMENT</b>	
<b>QUALIFICATION CODE: 07BNTC</b>	<b>LEVEL: 7</b>
<b>COURSE CODE: NCT620s</b>	<b>COURSE NAME: NATURE CONSERVATION TECHNIQUES 3</b>
<b>SESSION: JANUARY 2020</b>	<b>PAPER: THEORY</b>
<b>DURATION: 3 HOURS</b>	<b>MARKS: 150</b>

<b>SUPPLEMENTARY / SECOND OPPORTUNITY EXAMINATION QUESTION PAPER</b>	
<b>EXAMINER(S)</b>	Mrs C D'Alton
<b>MODERATOR:</b>	Mr M Britz

<b>INSTRUCTIONS</b>	
<ol style="list-style-type: none"><li>1. Answer ALL the questions.</li><li>2. Write clearly and neatly.</li><li>3. Number the answers clearly.</li></ol>	

**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 3 PAGES (Including this front page)**

### **Section A: Rifle Care and Marksmanship:**

Question 1: Explain the steps of sighting a rifle. (10)

Question 2: Give the correct definitions for the following:

- a) Line of sight
- b) Line of fire
- c) Line of departure
- d) Axis of the barrel
- e) Ricochets (5)

Question 3: Name and explain five factors that influence accuracy. (10)

### **Section B: Horsemanship:**

Question 4: Name ten reasons for using horses to patrol nature reserves and parks? (10)

Question 5: What are the procedures you must follow during a horse patrol? (10)

Question 6: Name and explain the problems that can occur because of feeding. (5)

### **Section C: Game Capture**

Question 7: What essential information does the pilot who are involved in herding the animals, and the wildlife capturer need, before planning the capture? (10)

Question 8: What do you need to consider before deciding on a capture date and why? (6)

Question 9: Discuss the design and functioning of a mass-capture boma in detail. (20)

Question 10: Name at least four factors that make animals susceptible to capture Myopathy. (4)

### **Section D: Transportation**

Question 11: When game is transported, they are in general tranquilized, either a short or long-acting tranquilizer is used.

- a) Name one long acting and (1)
  - b) One short acting tranquilizer (1)
  - c) When will you administer a long-acting or a short-acting tranquilizer? (2)
  - d) Which factors will determine the dosage? (8)
  - e) How will you handle animals that was handled physically during capture? (6)
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Question 12: Which factors may contribute to overland transportation's success when transporting game? **(16)**

Question 13: What are the advantages of keeping game in temporary captivity before their release? **(6)**

Question 14: Owing to their addictive properties and the danger of drugs used for chemical immobilization and tranquilation of game, they are strictly controlled by the Department of Health. Explain the measures that are put into place to control the use of these drugs. **(10)**

### **Section E: Harvesting**

Question 15: Which four harvesting methods can be used for the large-scale utilization of game for meat production? Briefly explain each method. **(8)**

Question 16: Define the following:

- a) Sustained harvest **(1)**
- b) Culling **(1)**

Question 17: Name ten ideal requirements for a harvesting programme. **(10)**

**Total: 150**