



**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**

<b>QUALIFICATION : BACHELOR OF NATURAL RESOURCES MANAGEMENT HONOURS</b>	
<b>QUALIFICATION CODE:</b> 08BNRH	<b>LEVEL:</b> 8
<b>COURSE:</b> Conservation Biology	<b>COURSE CODE:</b> CSB810S
<b>DATE:</b> July 2023	
<b>DURATION:</b> 3 (three) hours	<b>MARKS:</b> 100

<b>SECOND OPPORTUNITY/SUPPLEMENTARY EXAMINATION QUESTION PAPER</b>	
<b>EXAMINER(S)</b>	Dr T. Nzuma
<b>MODERATOR:</b>	Prof. H. Ndagurwa

<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. Examination question paper
2. Answering book
3. Calculator

**THIS QUESTION PAPER CONSISTS OF 1 PAGE (Excluding this front page)**

**Question 1**

**[20]**

Discuss the challenges and opportunities for biodiversity conservation in urban landscapes.

**Question 2**

**[10]**

What is climate adaptation in the context of biodiversity conservation?

**Question 3**

**[20]**

Discuss the importance of measuring biodiversity and the different methods used to do so.

**Question 4**

**[50]**

- a) What is inbreeding depression? Explain your answer by giving examples. **[20]**
- b) Calculate the number of species expected in a community with 100 individuals, assuming a species-area relationship exponent of 0.25 and an area of 10 square meters. Use the species area formula. **[10]**
- c) Discuss the challenges and potential solutions for addressing the problem of inbreeding in endangered species conservation. **[20]**

**THE END**

Total  
Marks: 100