



PAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

DEPARTMENT OF AGRICULTURAL SCIENCES AND AGRIBUSINESS

QUALIFICATION: BACHELOR OF SCIENCE IN AGRICULTURE	
QUALIFICATION CODE: 07BAGA	LEVEL: 7
COURSE CODE: IB1511S	COURSE NAME: INTRODUCTION TO GENERAL BIOLOGY
DATE: JUNE 2025	
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	Mr. C. L. Akashambatwa
MODERATOR:	Mrs. L. Theron

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

THIS QUESTION PAPER CONSISTS OF 2 PAGE (Including this front page)

Question 1

- 1.1. Name and explain the seven characteristics of living things. (7)
- 1.2. Why do plants need to exchange gases with the environment? (4)
- 1.3. Name and explain with examples the two types of cell reproduction. (4)
- 1.4. What is crossing over? In which period of meiosis does this event occur and what is its importance? (5)
- 1.5. List the Six major classes of plant hormones and briefly explain what each is responsible for. (12)
- [32]

Question 2

- 2.1. Distinguish between monoecious and dioecious flowers and give an example of each. (4)
- 2.2. Cells are the basic structural units of living organisms. Explain what that means. (5)
- 2.3. Explain what Specification is and what are the processes which can lead to it? (4)
- 2.4. Distinguish between the functions of mitosis and meiosis. (10)
- 2.5. Distinguish between Nama Karoo and Acacia tree & shrub savanna biomes of Namibia in terms of climate, vegetation & ecological characteristics (flora & fauna). (12)
- [35]

Question 3

- 3.1 Explain the cell cycle in full. (8)
- 3.2. List the functions of the following plant parts: leaves, the stem, roots, nodes, and internodes. (5)
- 3.3. Mitosis is divided into Five phases, mention and describe what happens in each phase. (10)
- 3.4. Draw a transverse section of a dicot leaf and label it correctly. (10)
- [33]

[TOTAL 100]