



**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: JULY 2025	
DURATION: 3 HOURS	MARKS: 100

SECOND OPPORTUNITY/SUPPLEMENTARY 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 PAGES (Including this front page)

Question 1

- 1.1. Name and explain with examples the two types of cell reproduction. (4)
- 1.2. Define Prokaryotes and Eukaryotes. (4)
- 1.3. Kingdom fungi is divided into five phyla, name them and give one example of each. (10)
- 1.4. What is a meristem, where are meristems located in plants and what are their functions? (5)
- 1.5. Explain five functions of the nucleus. (5)
- [28]

Question 2

- 2.1. Why is a mushroom regarded as a fungus rather than a plant? (2)
- 2.2. Most species-loss can be traced to four major threats. Name these threats. (4)
- 2.3. Biodiversity has three main components, briefly name and explain them. (6)
- 2.4. Differentiated between root cap and Vascular cambium. (4)
- [16]

Question 3

- 3.1. Explain the functions of a vacuole in the cell. (6)
- 3.2. Explain Kingdom Protista. (4)
- 3.3. Explain the process of photosynthesis with a diagram and the chemical reaction Formula. (6)
- [16]

Question 4

- 4.1. *Prosopis Cineraria* is an invasive specie in Namibia and abundantly growing well in prominent ephemeral rivers of Namibia. Name the river, in the South of the country, heavily infested by *Prosopis* and further elaborate on the specie's pros & cons. (24)
(1 mark for a pros/con and 1 mark for elaborative per pros/cons).
- 4.2. Distinguish between gymnosperm and angiosperm plants. (8)
- 4.3. Differentiate between a food chain and a food-web with illustrations to clearly indicate what is happening in each series. (8)
- [40]

[TOTAL 100]