



**PAMIBIA UNIVERSITY**  
**OF SCIENCE AND TECHNOLOGY**

**FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES**

**DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES**

<b>QUALIFICATION: BACHELOR OF NATURAL RESOURCES MANAGEMENT</b>	
<b>QUALIFICATION CODE: 07BNRS</b>	<b>LEVEL: 7</b>
<b>COURSE CODE: PTS620S</b>	<b>COURSE NAME: PLANT STUDIES 1</b>
<b>DATE: JANUARY 2023</b>	
<b>DURATION: 2 HOURS</b>	<b>MARKS: 100</b>

<b>SECOND OPPORTUNITY / SUPPLEMENTARY EXAMINATION QUESTION PAPER</b>	
<b>EXAMINER(S)</b>	Dr. Jonathan M. Kamwi
<b>MODERATOR:</b>	Mrs. Louise Theron

<b>INSTRUCTIONS</b>
1. Answer all questions.

**THIS QUESTION PAPER CONSISTS OF 2 PAGES** (Excluding this front page)

**Question 1**  
Give the occurrence of bryophytes. [4]

**Question 2**  
Describe alternation of generation. [5]

**Question 3**  
Give two differences between bryophytes and pteridophytes. [4]

**Question 4**  
How are male and female sex organs in Bryophytes called? [2]

**Question 5**  
How far does Selaginella fall short of seed habit? [2]

**Question 6**  
Describe the life cycle of a plant. [5]

**Question 7**  
What is mean by double fertilization? [5]

**Question 8**  
If the meristem of a plant is damaged, will the plant die? Why or why not? [4]

**Question 9**  
What is the difference between a Dicot and a Monocot root system and why would this benefit a Dicot or Monocot? [4]

**Question 10**  
Briefly discuss the adaptation of *Zygothallum stapffii* in the Central Namib vegetation zone. [4]

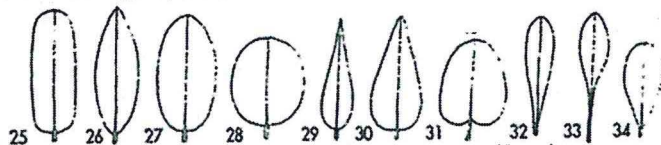
**Question 11**  
Describe the process called capillary rise for plants. [4]

**Question 12**  
What is seed dormancy? Outline the types of seed dormancies studied. [10]

**Question 13**  
Describe the process of leaf abscission. [6]

**Question 14**  
Draw the full structure of a leaf with labels, and show its attachment to a twig or branch. [10]

**Question 15**  
Label leaf types, 25-34. [10]



**Question 16**

Characters of plants can be reproductive, vegetative, diagnostic or distinguishing. What does that mean?

[4]

**Question 17**

Plant distribution can be cosmopolitan, endemic or disjunct. What does that mean?

[3]

**Question 18**

Label the vegetation zones, 1-14.

[14]

