

FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES

DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES

QUALIFICATION: BACHELOR OF NATURAL RESOURCES MANAGEMENT		
QUALIFICATION CODE: 07BNRS	LEVEL: 7	
COURSE CODE: PTS620S	COURSE NAME: PLANT STUDIES 1	
DATE: NOVEMBER 2022		
DURATION: 2 HOURS	MARKS: 100	

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER			
EXAMINER(S)	Dr. Jonathan M. Kamwi		
MODERATOR:	Mrs. Louise Theron		

INSTRUCTIONS		
1.	Answer all questions.	

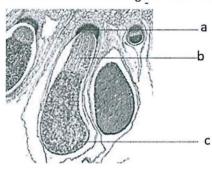
THIS MARKING SCHEME CONSISTS OF 2 PAGES (Excluding this front page)

1. What are the two dominant families in the "Gariep Centre Endemism"?

[2]

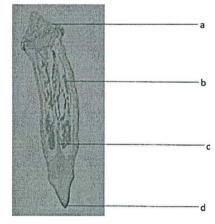
2. Provide the title of the figure below and label a-c.

[4]



3. Provide the title of the figure below and label a-d.

[5]



4. What is the function of a micropyle?

[2]

5. Name the only species in Namibia from the Equisetophyta phylum.

[2]

6. Describe the unisexual cones found on Conifer/ Pine trees.

[4]

7. In what ways does the upper epidermis of a leaf differ from the lower epidermis? How are these structural differences adaptive?

[4]

8. Name the two alien invasive species in the Zambezi region.

[4]

9. How is the transport of substances carried out across bryophyte tissues? How is this feature related to the general size of these plants?

[4]

10. In general, where is the sporophyte located in relation to the gametophyte in bryophytes? How does the sporophyte obtain nutrients?

[2]

11. Why can bryophytes be considered the "amphibians of the plant world"?

[2]

12.	How does vegetative reproduction occur in bryophytes?	[4]
13.	What is a rhizome? Give its function.	[3]
14.	What are the angiosperm advances over gymnosperms?	[6]
15.	How did the primitive angiosperms look like?	[9]
16.	Name the endemic grass species in the "Kaokoveld centre of endemism".	[2]
17.	Faidherbia albida is a reverse morphology species. What does that mean?	[2]
18.	Provide the title of the figure below and label a-d.	[5]
	A B C C D	
19.	Do epidermal cells of leaves have a cuticle? Explain your answer.	[2]
20.	Compare between the cross section of dicot and monocot stems using diagrams.	[10]
21.	Describe the unisexual cones found on Conifer/ Pine trees.	[6]
22.	What are the differences (give at least one difference) between the following: - 9.1 Legume and a capsule 9.2 Drupe and a berry 9.3 A nut and an achene	[6]
23.	What is the function of meristematic tissues?	[2]
24.	In what ways does the upper epidermis of a leaf differ from the lower epidermis? How are these structural differences adaptive?	[4]
25.	Distinguish between the pairs of the following terms: a. Actinomorphic flower; zygomorphic flower b. Epigynous flower; hypogenous flower	[4]

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