BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

NRF 202



DEPARTMENT OF NATURAL RESOURCES BSC PART II EXAMINATION FOREST BOTANY

2 HOURS (70 MARKS)

INSTRUCTIONS

Answer THREE questions out of the following four questions. You must answer question One from SECTION A and any Two from SECTION B.

SECTION A (COMPULSORY)

 (a) Distinguish between two theories of organisation of the plant apices: Korper-Kappe and the Tunica Corpus theory .

[10 Marks]

(b) Discuss the three main types of plant tissues and their functions.

[10 Marks]

(c) Discuss the concept of plant classification.

[10 Marks]

SECTION B

2. (a) Distinguish angiosperms from gymnosperms.

[2 Marks]

(b) Discuss the role of plant indicator species.

[10 Marks]

(c) Outline the rules and codes of plant nomenclature as outlined by the international botanical code of nomenclature (ICBN).

[8 Marks]

3. (a) Explain how the structure of plants is an adaptation to their basic function in terrestrial ecosystems.

[5 Marks]

	(b)	Draw and label the longitudinal view of a tree trunk.	[5 Marks]
	(c)	Explain the functions of any five parts shown in (b) above	[10 Marks]
4.	(a)	Discuss leaf and stem modifications in plants.	[10 Marks]
	(b)	Differentiate between primary and secondary growth, and describe where and how each kind of growth occurs.	[10 Marks]
5.	(a)	Draw and label two distinct floral types in plants.	[10 Marks]
	(b)	Describe the procedures for preparing a herbarium specimen.	[10 Marks]

END OF PAPER