BINDURA UNIVERSITY OF SCIENCE EDUCATION

BACHELOR OF SCIENCE DEGREE

NRF206

[20 Mark

DEPARTMENT OF NATURAL RESOURCES BSc PART II EXAMINATION SILVICULTURE

2 HOURS (70 MARKS)

* MOV 2023

INSTRUCTIONS

Answer Three questions out of the following Five questions. You must answer question One from Section A and any Two questions from Section B.

SECTION A (COMPULSORY)	
 Briefly explain the following concepts/ terms: a) Even-aged silviculture b) Cleaning c) Improvement cutting d) Liberating e) Root pruning f) Salvage cutting 	[5 Marks] [5 Marks] [5 Marks] [5 Marks] [5 Marks] [5 Marks]
SECTION B 2. Explain the following methods used to control weeds in forest plantations: a) Pre-plant spray b) Coning operation c) Chemical hoe d) Ring weeding e) Slash	[3 Marks] [3 Marks] [4 Marks] [5 Marks] [5 Marks]
 Describe the dominant height based pruning regime for <i>Pinus patula</i> in Zimbabwe. 	[20 Marks
4. Review the ways that are used to store seed of the following forest plantation species: a) Pinus patula b) Eucalyptus grandis c) Acacia mearnsii	[8 Marks] [7 Marks] [5 Marks]

5. Explain seven parameters that are commonly used to grade the quality

of pine seedlings before planting.