BINDURA UNIVERSITY OF SCIENCE EDUCATION DEPARTMENT OF BIOLOGICAL SCIENCES BIODIVERSITY AND ECOSYSTEMS (BZ007)

EXAMINATION 2 HOURS (100 MARKS)

INSTRUCTIONS

Answer FOUR questions. You MUST answer QUESTION 1 (Section A) and any THREE questions from Section B. Each question carries 25 MARKS. Where a question contains subdivisions, the mark value of each subdivision is given in brackets. Illustrate your answers where appropriate with large, clearly labelled diagrams. You should not spend more than thirty minutes on each question.

SECTION A (COMPULSORY)

1. (a) Describe a procedure to measure the biodiversity of a given community. (13 Marks)

(b) Explain the effects of over exploitation and introduction of exotic species (12 Marks) on biodiversity.

SECTION B

2. Describe the process of ecological succession.

(15 marks) 3. (a) Describe the major threats to biodiversity.

(b) Provide an outline of the major reasons for conserving biodiversity.

(10 marks)

4. Write brief notes on any FIVE of the following

(5 Marks) (a) Pyramid of biomass (5 Marks) (b) Ecosystem diversity (5 Marks) (c) Food chains (5 Marks) (d) Genetic diversity

(5 Marks) (e) Species diversity (5 Marks) (f) Community ecology

5. Describe any five types of community interactions.

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6. Write an essay on ONE international convention and ONE local legal	
instrumentthat guide biodiversity conservation in Zimbabwe.	
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