

BINDURA UNIVERSITY OF SCIENCE EDUCATION

DEPARTMENT OF CURRICULUM AND EDUCATIONAL MANAGEMENT STUDIES

**PROGRAMME: BACHELOR OF SCIENCE EDUCATION HONOURS DEGREE -
AGRICULTURE (HBScEdAg)**

COURSE CODE: EAG102

**COURSE NARRATION: INTRODUCTION TO SOIL
AND PLANT SCIENCE (EAG102-1)**

DURATION: 3 HOURS

TOTAL MARKS: 300

INSTRUCTIONS

JAN 2025

- Answer any three questions
 - Use examples, illustrations and diagrams where relevant
 - Marks for each question are indicated in brackets
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1. a. Discuss the importance of understanding soils and plants as integral components of ecosystems. [48]
b. Provide examples illustrating how soil properties directly influence plant growth within specific ecosystems. [52]
2. a. Describe the role of soil composition in supporting plant growth. [40]
b. Compare and contrast the processes of soil genesis and their implications for soil fertility. [60]
3. Analyse how plants uptake nutrients from the soil and how soil conditions influence plant growth. [100]
4. Discuss how soil properties influence root-soil interactions and plant health. [100]
5. a. Assess the environmental implications of soil quality in non-agricultural contexts. [50]
b. Propose sustainable land management practices for urban environments to ensure soil health and environmental quality. [50]

END OF PAPER