

BINDURA UNIVERSITY OF SCIENCE EDUCATION

DEPARTMENT OF CURRICULUM AND EDUCATIONAL MANAGEMENT STUDIES

BACHELOR OF SCIENCE EDUCATION HONOURS DEGREE IN GEOGRAPHY
(HBScEdGg)

COURSE CODE: GG 319(1). **COURSE NARRATION:** REMOTE SENSING AND
GEOGRAPHIC INFORMATION SYSTEMS

TIME 3 HOURS

Instructions to candidates

- Answer any **three** questions.
 - Each question carries 25 marks
 - Use examples, illustrations and diagrams where relevant
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JAN 2025

1. Describe any **five** of the following visual image interpretation elements.
 - a. Site
 - b. Association
 - c. Pattern
 - d. Shadow
 - e. Texture

[25]
2.
 - a. Distinguish between supervised and unsupervised image classification
[10]
 - b. Explain any **three** applications of supervised image classification [15]
3.
 - a. Define the term 'vector data model'. [5]
 - b. Outline any **five** advantages associated with the vector of vector data model in mapping geographic features. [20]
4.
 - a. Explain the meaning of 'overlay'. [5]
 - b. Describe any **two** examples of using overlays for assessing environmental degradation in a particular area. [20]
5. Explain the importance of **either** remote sensing **or** geographic information systems in assessing deforestation in Zimbabwe. [25]

END OF PAPER