BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE

GEOGRAPHY DEPARTMENT



BACHELOR OF SCIENCE DEGREE (BScEd)

GG319: INTRODUCTION TO REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS

EXAMINATION TIME: 21/4 HOURS

ANSWER ANY THREE QUESTIONS. MARKS ALLOCATED FOR EACH QUESTIONARE INDICATED IN BRACKETS [].

- 1. Describe any FOUR of the following visual image interpretation elements are used to derive information from remote sensing data:
 - a. Shadow. [5]
 - b. Pattern. [5]
 - c. Site. [5]
 - d. Size. [5]
 - e. Tone. [5]
- 2. Explain the application of remote sensing data in land use and or land cover analyses. [25]
- 3. a) Distinguish active from passive remote sensing. [10]
- b) Describe challenges associated with access to satellite based remote sensing data in Zimbabwe. [15]
- 4. a) Define 'change detection.'
 - b) Describe any TWO examples of change detection that are used for assessing environmental degradation. [20]
- 5. Explain the importance of mapping rural deforestation in Zimbabwe. [25]