

GWANDA STATE UNIVERSITY

FACULTY OF ENGINEERING AND ENVIRONMENT DEPARTMENT OF GEOMATICS AND SURVEYING

Photogrammetry and Remote Sensing

EGS 2210

Examination Paper

June 2023

This examination paper consists of 2 pages

Time Allowed:

3 hours

Total Marks: 100

Examiner's Name: Mr N.S. Maphosa

INSTRUCTIONS

1. Choose and Answer any 4 questions

Page 1 of 2

Copyright: Gwanda State University, 2023

- 1. With reference to examples, explain the practical applicability of remote sensing in mineral exploration and mining industries [25]
- 2. Using a diagram and a calculated example, explain the scientific basis of using NDVI for estimating vegetation vigour and amount. [25]
- 3. Using a calculated example, demonstrate and justify the need for haze correction on a satellite image [25]
- 4. Explain the types of classification used in photogrammetry and remote sensing [25]
- 5. (A) briefly explain characteristics of an image [10](B)With the aid of a diagram, explain the elements of an optical remote sensing system [15]