



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2016/2017

**SECOND YEAR SECOND SEMESTER EXAMINATION FOR DEGREE OF
BACHELOR OF SCIENCE IN GEOSPATIAL INFORMATION SCIENCE
WITH INFORMATION TECHNOLOGY**

CITY CAMPUS

PGS 211: REMOTE SENSING II

Date: 25th November, 2016

Time: 9.00 - 12.00pm

INSTRUCTIONS:

- Answer Questions ONE (Compulsory) and any other TWO.
- Use sketches and diagrams whenever necessary



- 1.(a) Explain the elements used in image interpretation. 6 marks
- (b) Discuss the importance of field observations in the process of image interpretation. 12 marks
- (c) Examine re-sampling procedures used in preprocessing of image data. 12 marks
2. (a) Examine the causes of geometric distortions of digital images. 10 marks
- (b) Describe the methods used in the classification of images. 10 marks
3. a) Examine factors to consider when selecting images for a given application. 8 marks
- (b) Discuss procedures used in image contrast enhancement. 12 marks
4. (a) Discuss factors that determine the quality of an image interpretation. 12 marks
- (b) Explain the aspect of stereoscopic viewing in aerial photography. 8 marks
5. (a) Write brief notes on the following:
- (i) Spectral rationing 8 marks
- (ii) Principal component analysis 6 marks
- (b) Distinguish between digital image processing and visual image interpretation. 6 marks
6. (a) Discuss the importance of data integration remote sensing. 15 marks
- (b) Differentiate between land use and land cover. 5 marks