



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2015/2016**

**SECOND YEAR FIRST SEMESTER EXAMINATIONS FOR THE  
DEGREE OF BACHELOR OF SCIENCE IN EARTH SCIENCE  
WITH INFORMATION TECHNOLOGY**

**MAIN CAMPUS**

**NGA 204: CARTOGRAPHY**

Date: 6<sup>th</sup> January, 2016

Time: 8.30 - 10.30 am

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**INSTRUCTIONS:**

- Answer question ONE and any other TWO questions.
- Sketch maps and diagrams should be used whenever appropriate.



## NGA 204: CARTOGRAPHY

1. a) Discuss the scales of measurements in cartography. (10 marks)
- b) Write short notes on
  - i. Map title (3 marks)
  - ii. Legend (3 marks)
  - iii. Orientation (3 marks)
  - iv. Scale (3 marks)
  - v. Date (3 marks)
- c) Distinguish between a map and a plan. (6 marks)
- d) Explain types of line symbols (9 marks)
2. Discuss the main types of maps. (20 marks)
3. Examine any six elements of generalization. (20 marks)
4. Explain major sources of information in cartography. (20 marks)
5. Examine the production of area images. (20 marks)
6. Discuss map design and cartographic objectives. (20 marks)