



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 212: SPATIAL ANALYSIS

Date: 24th November, 2016

Time: 2.00 - 5.00pm

INSTRUCTIONS:

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

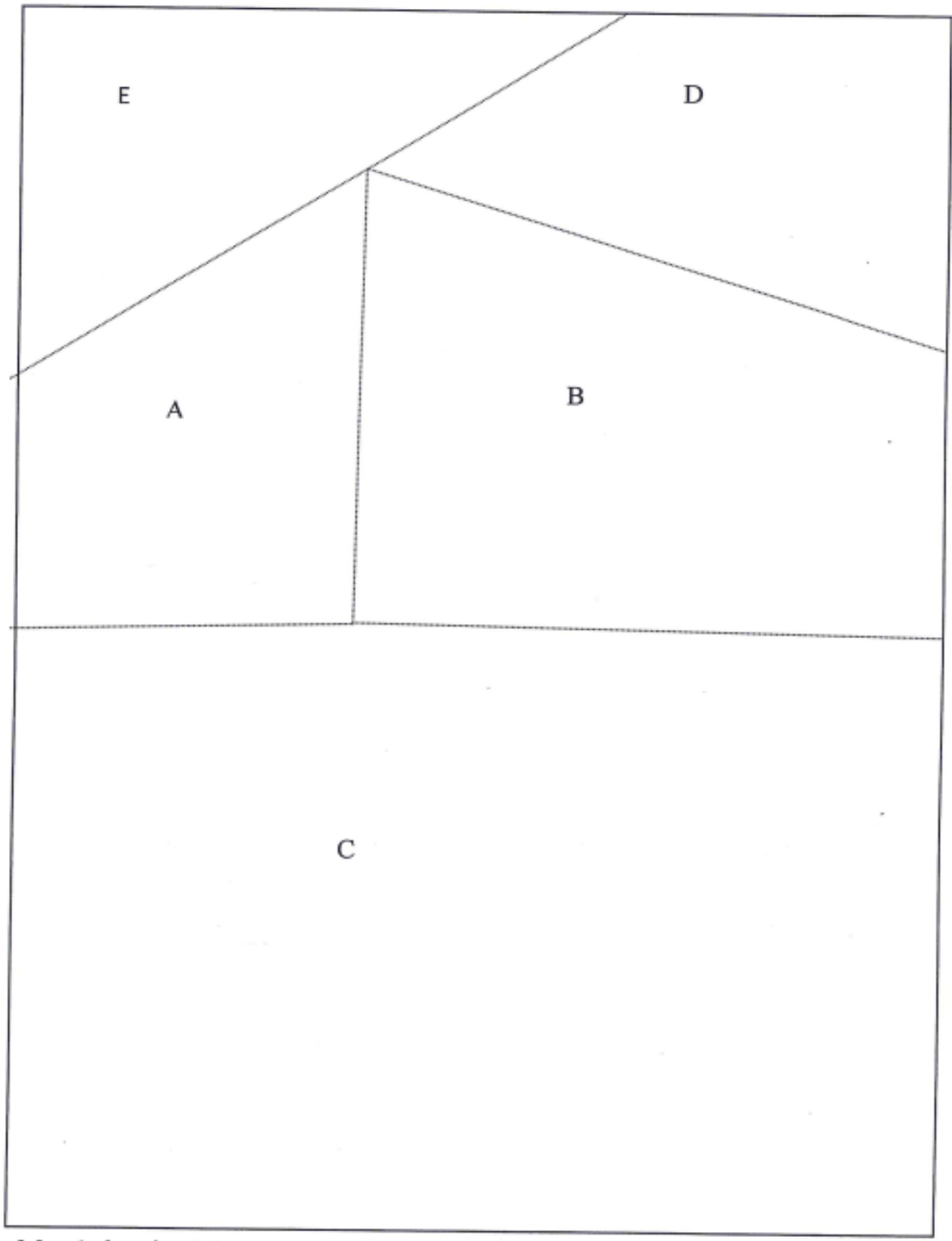


1. Using the following table answer the questions below

Population of Maaga County

Area in sq. kms	Total Population	Sub Counties in Maaga
4500	300 000	A
5000	250 000	B
6000	600 000	C
500	100 000	D
2500	500 000	E

- a. Using proportional circles show the population distribution of Maaga county on the map provide on the last page. (20 marks)
- b. Comment on the use of this method in representing this data (5 marks)
2. Discuss the influence of scale on maps as data sources
3. Describe the challenges of using spatial analysis for decision making
4. Illustrate vector overlay functions
5. Illustrate raster conditional overlay functions
6. Explain classification, retrieval and measurement functions in GIS



Map 1 showing Maaga county