



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY  
EXAMINATIONS  
2018/2019 ACADEMIC YEAR  
SECOND YEAR SECOND  
SEMESTER**

**SCHOOL OF TOURISM AND  
NATURAL RESOURCES  
MANAGEMENT  
BACHELOR OF ARTS (GEOGRAPHY)**

**COURSE CODE: GEO 2215  
COURSE TITLE: INTRODUCTION  
TO LAND**

**SURVEY**

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*This paper consists of 3 printed*

**DATE: 23<sup>RD</sup> APRIL 2019**  
**8.30AM-10.30AM**

**TIME:**

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**INSTRUCTIONS TO CANDIDATES**

- ***Answer question ONE and any other TWO Questions***
- ***Use illustrations where appropriate.***

1. a. Explain the term survey (4mks)
  - b. Differentiate between geodetic survey and hydrographic survey (6mks)
  - c. Describe direct method as a way of making linear measurements (5mks)
  - d i). Identify the uses of a tachometric survey (6mks)
  - ii). What are the essential parts of a theodolite (9mks)
- 2.i) How would you set up a Dumpy level when you are out in the field (7mks)
  - ii) Assess the importance of leveling in the vertical measurement (8mks)
  - iii) What are some of the leveling problems you are likely to experience when you are out in the field (5mks)
- 3.i) Assume that you are required to prepare the map of your University by plane table survey Give the step by step procedures be followed (15 marks)
  - ii) Apart from plane table survey identify other types of mapping Method (5mks)
4. Discuss the various errors in surveying giving relevant examples under each source (20mks)

5. i) what is GPS(global positioning systems) (4mks)  
ii) Describe the three segments of a GPS (12mks)  
iii) what are some of the errors you are likely to encounter when using the GPS ( 4mks)

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END

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