



MAASAI MARA UNIVERSITY

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

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT BACHELOR OF ARTS IN GEOGRAPHY

COURSE CODE: GEO 2113

**COURSE TITLE: GEOGRAPHIC INFORMATION
SYSTEMS**

DATE: 13TH DECEMBER, 2018

TIME: 0830 - 1030 HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section **A** and any other **THREE** in section **B**.

This paper consists of 2 printed pages. Please turn over

SECTION A (25 MARKS)

1. Explain why it is usually said that 80 % of information is geographic in nature **(4 marks)**
2. What do you understand by a computerised map? Explain how it is different from a paper map. **(5 marks)**
3. Briefly explain any three general sources of spatial data **(6 marks)**
4. Explain two data storage strategies in geo-information systems **(4 marks)**
5. Explain two (2) reasons why managers would need geoinformation **(4 marks)**
6. Briefly explain what a spatial data policy is and why it is important **(2 marks)**

SECTION B (45 MARKS)

7. Explain five factors to consider when choosing storage formats and platforms for geo-information **(15 marks)**
8. (i) Imagine that there has been a sudden outbreak of a water-borne disease like cholera. List and explain at least five (5) GIS layers that can be created on a map. What are the three (3) things that you can do with the map **(8 marks)**
(ii) You have been requested by your organisation to assess the needs of resource managers for GIS information. By conducting a survey, drafts a set of questions that you would ask to achieve the objective **(7 marks)**
9. (i) Explain the following terms with an example **(10 marks)**
 - a. Geospatial web
 - b. Geovisualization
 - c. Digital globes
 - d. Volunteered Geographic Information
 - e. Open Street Map (OSM)(ii) Explain how the lack of a GIS data policy would affect the East African community's freedom and copyright for geoinformation **(5 marks)**
10. (i) Discuss different potential users of GIS data **(6 marks)**
(ii) Discuss the trends in GIS data sharing **(9 marks)**

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