



MAASAI MARA UNIVERSITY

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

SECOND YEAR SECOND SEMESTER

**SCHOOL OF TOURISM AND NATURAL RESOURCE
MANAGEMENT**

**BACHELOR OF SCIENCE IN WILDLIFE
MANAGEMENT**

COURSE CODE: FEM 2203

**COURSE TITLE: GEOGRAPHIC INFORMATION
SYSTEMS**

DATE: 24TH APRIL, 2019

TIME: 11.00AM – 1.00PM

INSTRUCTIONS TO CANDIDATES

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

This paper consists of 2 printed pages. Please turn over

SECTION A: ANSWER ALL QUESTIONS (25 MARKS)

1. Discuss any two technologies that led to advancements in GIS. **(4 marks)**
2. With examples, describe any three components a Geographic Information System integrates. **(6 marks)**
3. Give and explain an example to describe GIS overlay function. **(2 marks)**
4. Describe any two data sources used to create GIS data using examples. **(2 marks)**
5. With an example, explain a method that can be used in abstraction of the real-world objects into GIS. **(4 marks)**
6. What is RDBMS and what is its use in GIS? **(2 marks)**
7. Differentiate between 'tablet digitizing' and 'heads-up' digitizing. **(2 marks)**
8. Discuss sources of error/uncertainty regarding spatial data capture in GIS. **(3 marks)**

SECTION B: ANSWER ANY THREE QUESTIONS (45 MARKS)

9. Discuss how Geographic Information Systems has developed to its current state. **(15 marks)**
10. "Better information leads to better decisions". Discuss this old saying as true for GIS using appropriate illustrations. **(15 marks)**
11. (i) Explain how the "human factor" enter into GIS development and Implementation. **(5 marks)**
(ii) Discuss with examples the disciplines and applications that have had the greatest influence on the development of current GIS technologies. **(10 marks)**
12. Discuss GIS data for wildlife managers. In your discussion include type of data, data capture, management, analysis and presentation of information products. **(15 marks)**

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