



TECHNICAL UNIVERSITY OF MOMBASA

School of Humanities & Social Sciences

DEPARTMENT OF HOSPITALITY & TOURISM

UNIVERSITY EXAMINATIONS FOR DEGREE IN
BACHELOR OF SCIENCE IN TOURISM MANAGEMENT

ECV 4240: GEOSPATIAL INFORMATION SYSTEM

SPECIAL/SUPPLEMENTARY EXAMINATIONS

SERIES: JUNE/JULY 2015

TIME: 2 HOURS

INSTRUCTIONS:

- Answer question **ONE (Compulsory)** in Section **A** and any other **TWO** questions in Section B.

This paper consists of Two printed pages

SECTION A (Compulsory)

QUESTION 1

- a) Define Geographical Information system. **(2 marks)**
- b) Name the basic components of a GIS system. **(12 marks)**
- c) Differentiate between discrete and continuous field view as terms used in GIS. **(6 marks)**
- d) Highlight what you consider when designing a map. **(10 marks)**

SECTION B (Answer any TWO questions)

QUESTION 2

Discuss the sources of GIS data for Kenyan users. **(20 marks)**

QUESTION 3

- a) List the advantages and disadvantages of raster and vector representation. **(8 marks)**
- b) Differentiate between numeric and semantic attributes. **(2 marks)**
- c) With an aid of a flow chart, discuss the data collection process in a GIS. **(10 marks)**

QUESTION 4

- a) Outline the advantages and disadvantages of manual digitization system. **(6 marks)**
- b) Define database management system. What are the advantages of storing geographic data in DBMS over traditional file processing system? **(4 marks)**
- c) Explain how you apply GIS in tourism planning. **(10 marks)**

QUESTION 5

- a) Discuss the most important factors for a successful GIS system that one must consider. **(6 marks)**
- b) List the component of an ideal GIS software system. **(7 marks)**
- c) Discuss the Object Database Management System. **(7 marks)**