TECHNICAL UNIVERSITY OF MOMBASA
Faculty of Business & Social Studies

DEPARTMENT OF HOSPITALITY & TOURISM

UNIVERSITY EXAMINATIONS FOR DEGREE IN

BACHELOR OF SCIENCE IN TOURISM MANAGEMENT

ECV 4240: GEOGRAPHICAL INFORMATION SYSTEM

END OF SEMESTER EXAMINATIONS

SERIES: APRIL 2013
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

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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 continous field view as terms used in GIS.   **(6 marks)**
d) Highlight what you consider when designing a reap.   **(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)**