



ZIMBABWE EZEKIEL GUTI UNIVERSITY
C LLEGE FOR LIFELONG LEARNING

**FACULTY OF SCIENCE, TECHNOLOGY, AGRICULTURE AND
FOOD SYSTEMS DEVELOPMENT**

DEPARTMENT OF INFORMATION SYSTEMS
EXAMINATION PAPER

COURSE CODE : GISRS 121
COURSE TITLE : Data visualisation and Map creation
SPECIAL REQUIREMENTS : None
DURATION : 2 Hours
LEVEL : 1.2
DATE : June 2024

11 JUN 2024

INSTRUCTIONS TO CANDIDATES:

1. This paper consists of 2 sections
2. Answer **ALL** Questions in SECTION A and in SECTION B
3. Start each Question on a new page

There are 2 printed pages for this question paper

Section A: Short Answer Questions

1. What are scatter plots, histograms, and box plots, and how do they aid in graphical exploration? [10]
2. How do interactive web maps enhance the user experience, and what are the benefits of using web mapping libraries like Leaflet or Mapbox? [15]

Section B: Essay Questions

1. Discuss the principles and techniques involved in creating a simple thematic map. [25]
 2. Explain the classification methods for choropleth maps and how to handle data outliers. [25]
 3. Describe the process of designing thematic maps with advanced symbology, including proportional symbol maps and cartographic generalization. [25]
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