



ZIMBABWE EZEKIEL GUTI UNIVERSITY
COLLEGE FOR LIFELONG LEARNING.

Faculty of Artefactual Design & Futures.

EXAMINATION PAPER

COURSE CODE : DSDM124
COURSE TITLE : HUMAN SETTLEMENT SCIENCE DATA
ANALYTICS

SPECIAL REQUIREMENTS : NONE
DURATION : 2 Hours
LEVEL : 1.2
DATE :

INSTRUCTIONS TO CANDIDATES:

1. No cell phones are allowed in the examination venue.
2. Question 1 (Section A) is compulsory. In Section B, choose and answer any Two (2) questions.
3. The number of marks for each question or part question is shown in brackets []
4. Use relevant examples to support your answers.
5. Begin each answer on a new page.
6. **DO NOT OPEN THIS PAPER UNTIL THE INVIGILATOR INSTRUCTS**

SECTION A. COMPULSORY QUESTION

QUESTION 1

- 1. Define data analytics and explain its relevance to the study and planning of human settlements.**

SECTION B

- 2. Describe how you would conduct a hotspot analysis to identify areas with high crime rates in a city.**
- 3. What are the key demographic indicators used to characterize a population?**
- 4. Explain the concept of clustering. How can clustering algorithms be used to identify distinct neighborhoods within a city?**
- 5. What environmental indicators can be used to measure the sustainability of a city?**