ZIMBABWE EZEKIEL GUTI UNIVERSITY

COLLEGE FOR LIFELONG LEARNING.

Faculty of Artefactual Design & Futures.

EXAMINATION PAPER

COURSE CODE	:	**DSDM121.**
COURSE TITLE	:	**GIS FOR URBAN PLANNING**
SPECIAL REQUIREMENTs	:	NONE
DURATION	:	2 Hours
LEVEL	:	1.1
DATE	:	24 NOV 2025

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

(a) Define a geodatabase **(2)**

(b) Differentiate between

i) Spatial and temporal resolution
ii) Raster and vector data
iii) A passive and active sensor
iv) Hyperspectral and multi-spectral remote sensing images **(4)**

c) Briefly describe the four analytical capabilities of GIS **(8)**

d) Which information can be derived from a digital elevation model? **(2)**

e) Which vector type (point, line or polygon) best represents the following features and why?

i) elevation
ii) roads
iii) temperature
iv) Soil units

SECTION B

2) Examine the utility of Geographic Information Systems (GIS) in urban planning and development. **(20)**

3) Evaluate the different variables of visual image interpretation. **(20)**

4) Examine the different characteristics of remote sensing images. **(20)**

5) Examine the utility of spatial databases in planning and development. **(20)**

END OF PAPER

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