

UNIVERSITY OF FORT HARE

**GEOGRAPHIC
INFORMATION SYSTEMS
FOR HUMAN SETTLEMENT
HGS 311**

SUPPLEMENTARY EXAMINATIONS

JANUARY

2019

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Time: 1 Hour 30 Minutes

Subject: Geographic Information Systems

Marks: 50

**This paper consists of 3 pages including the
cover page**

Internal Examiners

Mr O Manyanye

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INSTRUCTIONS

Read all questions carefully

Answer ALL questions.

QUESTION 1

3

Explain what you understand GIS to be.

QUESTION 2

5

- (a) **Briefly explain** where buffering can be used. (2)
- (b) What are the basic criteria that raster layers must meet in order to carry out a raster overlay operation? (3)

QUESTION 3

4

List **four** elements of your choice that can assist one in visual interpretation of images such as aerial photographs and satellite images.

QUESTION 4

6

Giving an example for each, how is a GIS used to answer the question of "What is, Where, and Why"?

QUESTION 5

12

- (a) What is the purpose of maps in GIS? (3)
- (b) List **THREE** criteria usually used for classifying maps. (3)
- (c) Distinguish between Large-scale maps and small-scale maps. (4)
- (d) List **TWO** types of maps of your choice. (2)

**QUESTION
10**

6

For a GIS to be effective there are several components that work together to achieve the desired results. Identify **FIVE** components and **explain** how they contribute to the effectiveness of a GIS.

QUESTION
10

7

Give **TWO** examples of each of the following:

- a) Continuous thematic map. (2)
- b) Discrete thematic map. (2)
- c) Attribute data for a layer representing streets in East London. (2)
- d) Attributes data for a layer representing towns in Eastern Cape. (2)
- e) Quantitative attribute data for a river. (2)

End of Paper

