



FACULTY	AGRICULTURE, ENGINEERING AND NATURAL SCIENCES		
DEPARTMENT	ENVIRONMENTAL SCIENCE		
SUBJECT	GIS AND LOCAL PLANNING		
SUBJECT CODE	GSO 3860		
DATE	OCT/NOV 2022		
DURATION	3 HOURS	MARKS	100

SUPPLEMENTARY/SPECIAL EXAMINATION

Examiner: QUEEN E KUBEZA

Internal Moderator: DR. ELIAKIM HAMUNYELA

External Moderator: Prof. T. Dube (University of Western Cape)

Instructions

1. Work in an orderly manner and present your work as neatly as possible.
2. While most of the marks will be awarded for content, candidates must bear in mind the importance of presentation, i.e. insight and critical thinking.
3. Number your questions correctly and clearly.
4. This paper consists of two (1) page (excluding this front page).
5. Answer ALL questions

SECTION A**Answer All Questions****(55)**

1. List the advantages of GIS in Disaster Management. (8)
2. What is the purpose of GIS in Demographic Analysis? (7)
3. Identify 8 societal problems explored and addressed through urban planning. (8)
4. What is the primary reason planners have adopted/opted the use of GIS? (4)
5. Briefly explain the relationship between GIS in Decision Making and Public Policy. (5)
6. Mention 5 ways how the GIS technology can support methods of developing Public Policy in several ways. (5)
7. What are the 8 steps in a successful workflow for the GIS application? (8)
8. List and briefly explain what the 3 types of crime analysis are. (6)
9. The GIScience as applied in the field of urban and regional planning should contribute to the certain goals within the urban and regional planning fraternity. What these four goals? (4)

SECTION B**Answer All Questions****(45)**

1. At Local Government, the availability of GIS as a tool for decision making has profound implications in 3 major areas. Mention and explain all the major areas. (15)
2. Explain the purpose of applying GIS to Ground Water Exploration and Water Resource Evaluation. (15)
3. Describe in as much detail as possible, the process of land suitability analysis used to find a suitable piece of land for use as a playground in an urban area (town), using GIS. (15)

END
