



GWANDA STATE UNIVERSITY

FACULTY OF ENGINEERING AND ENVIRONMENT

DEPARTMENT OF GEOMATICS AND SURVEYING

PRINCIPLES OF RURAL AND URBAN PLANNING

ESG 1211

Final Examination Paper

November 2023

This examination paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Examiner's Name: Dr. N. Muleya

INSTRUCTIONS

Answer ALL questions in chronological order

QUESTION 1: INTRODUCTION TO RURAL AND URBAN PLANNING [20]			
	a	Demonstrate your understanding of the following terms:	
	i	Urban planning	5
	ii	Principles of urban planning	5
	b	Discuss the objectives urban spatial planning	10
QUESTION 2: SPATIAL PLANNING MODELS AND CONCEPTS [20]			
		With aid of examples, examine the relevance of Alfred Weber's Industrial Location Theory in the location of modern industries	20
QUESTION 3: MASTER, LOCAL AND LAYOUT PLANNING [20]			
	a	Using illustrations, describe the terms 'cul-de-sac' and 'P loop' designs	8
	b	With aid of diagrams, illustrate four different types of car parking arrangements. Explain the circumstances under which each type can be used.	12
	c		
QUESTION 4: SUSTAINABLE RURAL AND URBAN (SPATIAL) PLANNING [20]			
		In light of the three principles of sustainable development, propose how sustainable spatial planning can be achieved in Zimbabwe	20
QUESTION 5: SPATIAL PLANNING REGULATIONS IN ZIMBABWE [20]			
		A private mining and metallurgical company intends to establish a thermal power plant (industrial) in Filabusi rural areas. Interpret the legal issues to be considered in the process in line with the following Acts of Parliament:	
	a	Environmental Management Act [Chapter 20:27]	10
	b	Rural District Councils Act [Chapter 29:13]	10

END OF EXAMINATION