



# **GWANDA STATE UNIVERSITY**

**FACULTY OF ENGINEERING AND ENVIRONMENT**

**DEPARTMENT OF GEOMATICS AND SURVEYING**

**LAND EVALUATION AND UTILISATION**

**EGS 5101**

**Final Examination Paper**

**May 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**

<b>QUESTION 1: INTRODUCTION TO LAND EVALUATION AND UTILISATION [20]</b>			
	a	Demonstrate your understanding of the following terms:	
	i)	Land evaluation	5
	ii)	Land utilisation	5
	b	'Land evaluation is a prerequisite for land use planning'. Discuss	10
<b>QUESTION 2: FACTORS TO BE CONSIDERED IN LAND EVALUATION AND UTILISATION [20]</b>			
		Examine the factors to be considered in the location of a thermal power plant.	
<b>QUESTION 3: LAND EVALUATION PROCESSES AND PPROACHES [20]</b>			
		Assess the utility of the following approaches to land evaluation and utilisation:	
	a	Environmental and Social Impact Assessment (ESIA)	10
	b	Food and Agriculture Organization (FAO) land suitability approach	10
<b>QUESTION 4: REVIEW OF LOCATION AND URBAN STRUCTURE THEORIES [20]</b>			
		Critique the relevance of the following location theories in contemporary land evaluation and utilisation. Support your answer using practical examples.	
	a	Alfred Weber's Industrial location theory	10
	b	Johann Heinrich Von Thunen's agricultural landuse theory	10
<b>QUESTION 5: LAND USE LEGISLATION IN ZIMBABWE [20]</b>			
		Select any <b>two</b> Acts of Parliament of your choice and demonstrate how they govern land evaluation and utilisation in Zimbabwe.	20

**END OF EXAMINATION**