

## **GWANDA STATE UNIVERSITY**

## FACULTY OF ENGINEERING AND ENVIRONMENT

## DEPARTMENT OF GEOMATICS AND SURVEYING

**RESEARCH METHODS** 

EGS3104

**Final Examination Paper** 

August 2021

This examination paper consists of 3 pages

Time Allowed: 3 hours

Total Marks: 100

Examiner's Name: Dr. C. Paradzayi

**INSTRUCTIONS** 

Answer ALL questions

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	1	i 10	N 1: RESEARCH METHODS [20] What is scientific research?	1
	a	1 ii		$\frac{1}{3}$
	1.	11	List and explain some of the research methods used in scientific research	3
	b		Write brief notes on how the following ways are used in research to gain	
		:	new knowledge	2
	-	i	Categorise	2
		11		2
		iii ·	Explain	2
		iv	Evaluate	2
		V .	Compare	2
		vi	Correlate	2
		vii	Predict	2
		viii	Control	2
	UE	<u>STIO</u>	N 2: PROFESSIONAL AND WORKPLACE REPORTS [20]	1
2	а		Compare and contrast quantitative and qualitative reports and give	6
			situations where each is appropriate	
	b		Mataranyika Informatics has acquired land for the construction of its new	
			Headquarters in Gwanda. You have been tasked with the undertake a	
			topographical survey and determine the suitability of the proposed site for	
			the new development. The board members expect you to table a business	
			report for their consideration.	
			Outline what should be contained in the following sections of the business	
		:	report:	2
		i	Title	2
		ii	Title Summary	2
		ii iii	Title       Summary       Table of contents	2 2
		ii iii iv	Title         Summary         Table of contents         Introduction	2 2 2
		ii iii iv v	Title         Summary         Table of contents         Introduction         Methods	2 2 2 2
		ii iii iv v vi	Title         Summary         Table of contents         Introduction         Methods         Findings	2 2 2 2 2 2
		ii iii iv v	Title         Summary         Table of contents         Introduction         Methods	2 2 2 2
		ii iii iv v vi vi vii	Title         Summary         Table of contents         Introduction         Methods         Findings         Recommendations	2 2 2 2 2 2
<u></u>	UE	ii iii iv v vi vi vii	Title Summary Table of contents Introduction Methods Findings Recommendations N 3: SCIENTIFIC WRITING [20]	2 2 2 2 2 2
<u>5</u>	UE	ii iii iv v vi vi vii	Title         Summary         Table of contents         Introduction         Methods         Findings         Recommendations         N 3: SCIENTIFIC WRITING [20]         As part of your final year of study, you are expected to research and present	2 2 2 2 2 2
<b>5</b> 1	UE	ii iii iv v vi vi vii	Title         Summary         Table of contents         Introduction         Methods         Findings         Recommendations         N 3: SCIENTIFIC WRITING [20]         As part of your final year of study, you are expected to research and present your findings in the form of a dissertation for a research problem of your	2 2 2 2 2 2 2
5	UE	ii iii iv v vi vi vii	Title Summary Table of contents Introduction Methods Findings Recommendations N 3: SCIENTIFIC WRITING [20] As part of your final year of study, you are expected to research and present your findings in the form of a dissertation for a research problem of your choice.	2 2 2 2 2 2 2 2 12
51	UE;	ii iii iv v vi vi vii	Title         Summary         Table of contents         Introduction         Methods         Findings         Recommendations         N 3: SCIENTIFIC WRITING [20]         As part of your final year of study, you are expected to research and present your findings in the form of a dissertation for a research problem of your choice.         Give a title of your expected research and justify this title	2 2 2 2 2 2
<u>5</u>		ii iii iv v vi vi vii	Title Summary Table of contents Introduction Methods Findings Recommendations N 3: SCIENTIFIC WRITING [20] As part of your final year of study, you are expected to research and present your findings in the form of a dissertation for a research problem of your choice.	2 2 2 2 2 2 2 2 12
2	a	ii iii iv v vi vi vii	Title         Summary         Table of contents         Introduction         Methods         Findings         Recommendations         N 3: SCIENTIFIC WRITING [20]         As part of your final year of study, you are expected to research and present your findings in the form of a dissertation for a research problem of your choice.         Give a title of your expected research and justify this title         Give a brief overview (not more than one paragraph) of what each of the	2 2 2 2 2 2 2 2 12
	a	ii iii iv v vi vii STIO	Title Summary Table of contents Introduction Methods Findings Recommendations N 3: SCIENTIFIC WRITING [20] As part of your final year of study, you are expected to research and present your findings in the form of a dissertation for a research problem of your choice. Give a title of your expected research and justify this title Give a brief overview (not more than one paragraph) of what each of the following sections will contain, relative to your research topic in 3(a) Introduction	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	a	ii iii iv v vi vii STIO	Title Summary Table of contents Introduction Methods Findings Recommendations N 3: SCIENTIFIC WRITING [20] As part of your final year of study, you are expected to research and present your findings in the form of a dissertation for a research problem of your choice. Give a title of your expected research and justify this title Give a brief overview (not more than one paragraph) of what each of the following sections will contain, relative to your research topic in 3(a) Introduction Literature review	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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	-			1				
		vi	Conclusion and Recommendations	3				
QUESTION 4: SCIENTIFIC MANUSCRIPTS [20]								
4	a		List the ideal headings in a summary of each paper or article which a researcher has subjected to a review.	6				
	b		Describe the seven different tests researchers can use to judge the quality of the content from web sources.	14				
QUESTION 5: APPLICATION [20]								
5			Use a well annotated diagram, to describe the structure of a typical research project in a Geomatics and Surveying discipline of your choice.	20				

## END OF EXAMINATION