BINDURA UNIVERSITY OF SCIENCE EDUCATION FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

DEPARTMENT: NATURAL RESOURCES

PROGRAMME: BSc NATURAL RESOURCES MANAGEMENT

COURSE CODE: NR126 (1): INTRODUCTION TO WATER RESOURCES MANAGEMENT

DURATION: 2 HOURS

TOTAL MARKS: 70

INSTRUCTIONS TO CANDIDATES



Answer Three questions out of the following five questions. You must answer question One from Section A and any Two questions from Section B.

SECTION A (COMPULSORY)

1.	(a) Define eutrophication.	[2 Marks]
	(b) What are the negative effects of eutrophication on aquatic ecosystems?	[4 Marks]
	(c) Highlight the water allocation systems used in Zimbabwe.	[4 Marks]
	(d) Outline the Dublin Principles.	[4 Marks]

(e) Explain ways in which a river system can purify itself. [6 Marks]

[10 Marks] (f) Explore the factors that lead to fresh water scarcity.

SECTION B

2.	Using examples, discuss the causes of conflicts emanating from shared fresh water resources.	[20 Marks]
3.	(a) Examine the notion that 'Wetlands are a fragile ecosystem that provides various goods and services.'	[10 Marks]
	(b) Explain how groundwater can be polluted.	[10 Marks]
4.	Discuss the legislation that governs water use in Zimbabwe.	[20 Marks]

5. Formulate temporal water quality monitoring program for of surface water resources in Mashonaland Central.

[20 Marks]

END OF PAPER