BINDURA UNIVERSITY OF SCIENCE EDUCATION FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

DEPARTMENT: NATURAL RESOURCES

PROGRAMME: BSc NATURAL RESOURCES MANAGEMENT

COURSE CODE: NR 124 (1): Introduction to Wildlife and Aquatic Resources

TOTAL MARKS: 70 DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES

JUN 2023 Answer THREE questions out of the following five questions. You must answer question One

SECTION A (COMPULSORY)

1) a) With the aid of examples from Zimbabwe, explain the following to	erms;
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from SECTION A and any Two questions from SECTION B.

	경우를 잃는 것들이 그들은 아이들이 되었다. 그는 아이들은 그들은 얼마나 가지를 하는데 얼마를 하는데 살아 되었다.	
i.	Subsistence fishing,	[2 Marks]
ii.	Commercial fishing,	[2 Marks]
iii.	Recreational fishing,	[2 Marks]
iv.	Passive fishing gear,	[2 Marks]
v.	Active fishing gear.	[2 Marks]

- b) Outline 5 categories of specialist feeders in fish populations. [5 Marks]
- c) List the common types of distribution in living organisms. [5 Marks]
- d) Classify the African lion under the seven classification groups of living organisms. [10 Marks]

SECTION B

- 2) Describe the process of digestion in a named ruminant. [20 Marks]
- 3) a) State the formula for the Mark-Release-Recapture method and explain the meaning of each variable.

[10 Marks]

b) In a Mark-Release-Recapture study on an offshore island, 100 saddlebacks were caught using mist nets and marked with colour bands before being released. A second capture was conducted one week later. A total of 60 saddlebacks were caught, and 40 of these were recaptures. Estimate the abundance of saddlebacks on the island.

[10 Marks]

4) a) Outline 5 categories of aquatic ecosystems.

[10 Marks]

b) Describe any 5 factors that affect fish distribution.

[10 Marks]

5) Discuss current threats to the freshwater fishes of Southern Africa.

[20 marks]

END OF PAPER