



“Investing in Africa’s Future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF ENVIRONMENTAL STUDIES AND NATURAL RESOURCES

NAWL 404: FRESH WATER ECOLOGY AND FISHERIES MANAGEMENT

END OF FIRST SEMESTER EXAMINATIONS

NOVEMBER/DECEMBER 2020

LECTURER: MS M. C. KUREHWATIRA

DURATION: 24 HRS

INSTRUCTIONS

- Type your Registration Number
- Answer only **one question** of your choice.
- Each full question carries 100 marks.
- Begin your answer for each question on a new page.
- Your full answer should be between 10 and 15 pages
- Font: Times New Roman; Font size 12; Line space: 2.0.
- Credit is given for neat, well-written and lucid work.

Question 1

- a) Give a critique of the river continuum concept. **[40 marks]**
- b) A developer wishes to construct an embankment of a river in your community. As a community representative, you are required to write a highlighting the impacts of this development on biodiversity as well as the impacts on the community. You must also include ways of mitigating or minimising these impacts. **[40 marks]**
- c) Fisheries management is an integrated process. Discuss. **[20 marks]**

Question 2

For a selected African country;

- a) Critically analyse the freshwater ecosystems and highlight in detail the importance of these ecosystems. **[50 marks]**
- b) Give a detailed outline of the freshwater biodiversity in the country and discuss in detail how the biodiversity is being threatened with extinction. **[50 marks]**

Question 3

As a fisheries management consultant, you are required to develop a fisheries management plan for your country;

- a) Outline in detail the process that you will follow to develop the management plan giving the rationale behind each step. **[60 marks]**
- b) Discuss the difficulties you are likely to face when implementing fisheries management programmes in your country and suggest possible solutions. **[40 marks]**

END OF EXAMINATION PAPER