



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

JANUARY – APRIL 2015 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF NATURAL SCIENCES (BIOLOGY)

SCHOOL FOCUSED PROGRAMME

BIO 410: FISHERIES BIOLOGY AND MANAGEMENT

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Date: April 2015	Duration: 2 Hours
Instructions: Answer Question ONE and any other TWO Questions.	

- Q1. a) State the scientific names of each of the following fish species. **(4 marks)**
- i) Nile Perch
 - ii) Tilapia
 - iii) Blackbass
 - iv) Omena
- b) i) Differentiate between capture and culture fishery **(2 marks)**
- ii) State one of the economic stimulus programmes initiated by the government of Kenya in the fisheries sector aimed at alleviating poverty and to ensure food security. **(1 mark)**
- iii) Explain three advantages/ benefits of the above named economic stimulus programme in b(ii) **(3 marks)**
- c) State four ways through which fisheries can be managed for a sustainable yield. **(2 marks)**
- d) i) What is Reservoir fisheries? **(1 marks)**
- ii) Name three main dams in Kenya where reservoir fisheries takes place. **(3 marks)**
- iii) Explain some of the problems experienced in Reservoir fisheries. **(3 marks)**
- e) i) What is fish quality control? **(1 mark)**

- ii) Outline some of the objectives of fish quality control. **(4 marks)**
- iii) Briefly explain some of the problems affecting fish quality control in Kenya. **(4 marks)**

Q2. Discuss the various fishing methods and gears in Kenya. **(20 marks)**

Q3. Lake Victoria is the largest fresh water body in the tropics with over 80% of the fisheries production in Kenya. Give a detailed account of the fisheries production in the lake. **(20 marks)**

Q4. Using relevant examples, discuss various methods of the fisheries management tools and procedures used in Kenya under the following heading:

- a) Fishery Resource Assessment
- b) Habitat improvement
- c) Fish stock improvement.

(20 marks)

Q5. Write an Essay on Fish consumption in Kenya. **(20 marks)**

END