



(Knowledge for Development)

KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR**

**FOURTH YEAR FIRST SEMESTER
MAIN EXAMINATIONS**

FOR THE DEGREE OF BACHELOR OF EDUCATION

COURSE CODE: SZL421

COURSE TITLE: FISH AND FISHERIES

DATE: THURSDAY 7TH OCTOBER, 2021 TIME: 2:00 -4:00 P.M.

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 3 printed pages. Please Turn  over

KIBU observes ZERO tolerance to examination cheating

1. (a) Define the following terms
 - i. Ichthyology
 - ii. Stenohaline fish
 - iii. Euryhaline fish
 - iv. Ovoviviparity
 - v. Viviparity (5 marks)
- (b) How is buoyancy regulated in most fishes? (5 marks)
- (c) Give the different types of sense organs present in fishes. (5 marks)
- (d) What types of evolutionary trends have been observed in fishes? (5 marks)
- (e) Write notes on
 - i. Actinopterygii.
 - ii. Coelacanth. (5 marks)
- (f) Explain the gene and genome classification in fishes (5 marks)

2. Naming examples discuss what makes fishes efficient swimmers. (20 marks)
3. Discuss the methods employed in fish farming in Kenya. (20 marks)
4. Enumerate the mechanisms of gas exchange in most fishes. (20 marks)
5. Describe osmoregulation in marine water fishes. (20 marks)