



*(Knowledge for Development)*

**KIBABII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**  
**2017/2018 ACADEMIC YEAR**  
**FOURTH YEAR SECOND SEMESTER**  
**MAIN EXAMINATIONS**

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY, BACHELOR  
OF EDUCATION SCIENCE AND BACHELOR AGRICULTURE EDUCATION  
AND EXTENSION

**COURSE CODE:** SZL 421  
**COURSE TITLE:** FISH AND FISHERIES BIOLOGY

**DATE:** THURSDAY 2<sup>nd</sup> August, 2018. **TIME:** 9:00 – 11:00 a.m.

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**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 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

1.
  - a) Name the two major groups of fishes and give one example in each case 4marks
  - b) Describe and state the function of
    - [i] Lateral Line System
    - [ii] Ampullae of Lorenzini 4marks
  - c) With examples, state three types of fish scales 3marks
  - d) Explain three ways that can be used for studying food habits and feeding in fish 3marks
  - e) State three factors that affect food intake in fish 3marks
  - f) Explain how some fishes are adapted to predatory life 5marks
  - g) Explain why fecundity is preferred to fertility in estimating of fish reproduction potential 4marks
  - h) Explain optimal foraging theory 4marks
  
2. Discuss factors that influence fish growth 20 marks
3. Describe the factors that influence fish aquaculture 20 marks
4. Discuss the advantages of "schooling" in fish and how the integrity of a "school" is maintained 20 marks
5. Describe fishing techniques used in Kenya 20marks