



MAASAI MARA UNIVERSITY

UNIVERSITY EXAMINATION 2018/2019

SCHOOL OF SCIENCE AND INFORMATION SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE ZOOLOGY

COURSE: *ZOO 423E* COURSE TITLE: *ICHTHYOLOGY*

DATE: 24/4/2019

TIME: 11:00 AM – 1:00 PM

INSTRUCTIONS TO CANDIDATES

- a) Answer **ALL** questions in section **A** and **any two** questions in section **B**
- b) Illustrate your answers with suitable diagrams and give examples wherever appropriate.

SECTION A: Answer ALL questions in this section. Each question carries 3marks

1. List four factors that influence the habitat of an aquatic organism.(3marks)
2. Outline three characteristics of class Agnatha.(3marks)
3. Name two types of scales common in bony fishes.(3marks)
4. Describe gaseous exchange in fishes.(3marks)
5. Outline three fish adaptations for buoyancy in water.(3marks)
6. Illustrate and label three common measurements taken in fish.(3marks)
7. Outline the significance of fusiform shape in fish.(3marks)
8. Name and describe three types of mouth positioning in fish .(3marks)
9. Describe two sources of colour in fish body colouration.(3marks)
10. State ecological significance of fish in aquatic environment.(3marks)

SECTION B: Answer Any Two Questions Each question carries 20 marks

11. Discuss morphological adaptations of fishes to the aquatic environment. (20marks)
12. Discuss functions of fish schools and shoals. (20marks)
13. Compare and contrast class chondrichthyes and ostiechthyes. (20marks)
14. Classify and describe reproductive guilds in teleost fishes.(20marks)

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