



TECHNICAL UNIVERSITY OF MOMBASA
SCHOOL OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:
BACHELOR OF SCIENCE IN FISHERIES AND OCEANOGRAPHY
BSFO 22S/ YEAR 4 /SEMESTER 1

AFO 4412: INLAND CAPTURE FISHERIES PAPER 1

END OF SEMESTER EXAMINATION
SERIES: AUGUST 2024
TIME: 2 HOURS

Instructions to Candidates

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions

This paper consists of two printed pages.

Mobile phones are NOT allowed in the examination room

QUESTION ONE

- a) Define the following terms as applied to inland capture fisheries:-
- i. Lotic aquatic ecosystem (1 mark)
 - ii. Lentic aquatic ecosystems (1 mark)
 - iii. Green food (1 mark)
 - iv. Open access regimes (1 mark)
 - v. Individual Transferable Quota (ITQ) (1 mark)
- b) List the techniques for regulating fishing practices within inland aquatic ecosystems (5 marks)
- c) Name 5 types of inland fisheries practiced throughout the world today (5 marks)
- d) Enumerate the techniques used to improve the production of inland fish species for commercial or recreational enterprises (5 marks)
- e) State 5 major characteristics of inland fisheries resources (5 marks)
- f) Highlight the types of conflict between resource users over the declining harvestable inland capture fish stocks (5 marks)

QUESTION TWO

Inland fisheries contribute over 40% of the world's capture finfish fisheries. However, inland capture fisheries is usually either unrecorded or under reported.

a) Briefly explain the available sources of inland capture fisheries data in Kenya (8 marks)

b) Describe the challenges of inland capture fisheries field data collection (12 marks)

QUESTION THREE

Aquaculture is not a substitute for the declining inland capture fisheries of the world. Discuss the reasons for supporting this statement. (20 marks)

QUESTION FOUR

Explain in detail the principles of sustainable inland capture fisheries management (20 marks)

QUESTION FIVE

Describe the major challenges facing the management of Lake Victoria inland fisheries (20 marks)