

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT OF HEALTH AND HEALTH SCIENCES

University Examination for the Degree of Bachelor of Science in Marine Resources

Management

BSMR 13S / Year 3 / Semester 2

Code: AES 4314: Coastal Aquaculture

SEMESTER EXAMINATION

Series: May / 2016

TIME: 2 Hours

Instructions to candidates:

This paper consist of FIVE questions

Answer question ONE (compulsory) and any other TWO questions

This paper consists of two printed pages

QUESTION ONE

SECTION A:

- a. State the aquaculture trends and forecast? [3 marks]
- b. What are the basic requirements for fish farming? [3 marks]
- c. What is aquaculture? [3 marks]
- d. State examples of systems used in fish and shellfish farming? [3 marks]
- e. Where does aquaculture take place? [3 marks]
- f. What are the labelling requirements for farmed fish? [3 marks]
- g. State six different kinds of aquaculture systems used in Kenya? [3 marks]
- h. How important are imports to the UK market? [3 marks]
- i. With reference to the UK, what measures are undertaken by aquaculturists to control harmful chemical residues in farmed fish? [3 marks]
- j. Explain whether farmed fish spread disease to wild fish stocks? [3 marks]

SECTION B:

2. (i). Discuss the current International aquaculture standards? [10 marks]
2. (ii). Explain three important characteristic feature of aquaculture in Kenya? [10 marks]
3. Discuss to what extent does aquaculture release carbon dioxide (CO₂) and contribute to climate change? [20 marks]
4. Discuss how aquaculture affect biodiversity? [20 marks]
5. You have been instructed by the Dean of the Faculty of Applied and Health Sciences of Technical University of Mombasa to visit a fish farm in Mtwapa. Discuss how you can carry out six tests for water quality? [20 marks]