



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 4306: FISH-POST HARVEST TECHNOLOGY II

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: (30 MARKS)

a) Define the following terms as they apply to fish post harvest technology:-

- | | |
|-----------------------------|----------|
| i. Fish spoilage | (1 Mark) |
| ii. Fish processing | (1 Mark) |
| iii. Post harvest fisheries | (1 Mark) |
| iv. Fish preservation | (1 Mark) |
| v. Value addition | (1 Mark) |

b) Name 3 categories of acids used for the biopreservation of fish and fish products.
(3

Marks)

c) List 5 chemical preservatives used to prevent the spoilage of fish and fish products.
(5

Marks)

d) Enumerate 3 modes of transport for the distribution of fish and fish products.
(3

Marks)

- e) State 5 guiding principles for all methods of preserving fish and fish products. (5 Marks)
- f) Highlight 4 methods of quality assessment for consumable fish and fish products. (4 Marks)
- g) State 5 forms of fish or fish products that can be presented for marketing. (5 Marks)

QUESTION TWO

Explain the key elements of Hazard Analysis and Critical Control Points (HACCP) used for guarding human health in the consumption of fish and fish products. (20 Marks)

QUESTION THREE

Discuss the factors that influence perishability of fish and fish products in the world. (20 Marks)

QUESTION FOUR

Describe how Total Quality Management (TQM) principles are applied in the marketing of fish and fish products within East Africa. (20 Marks)

QUESTION FIVE

Explain in detail the different treatment levels for solid and liquid wastes produced at the Dunga fish processing plant in Kisumu. (20 Marks)