

UNIVERSITY OF SWAZILAND

Faculty of Health Science

Department of Environmental Health Sciences

Main Examination 2010

Title of paper:

FERMENTED FOODS

Course code:

EHS 505

Time allowed:

2 hours

Marks allocation: 100 Marks

Instructions:

- 1) Read the questions and instructions carefully
- 2) Answer ANY FOUR (4) questions
- 3) Each question is weighted 25 marks
- 4) Write neatly and clearly
- 5) Begin each question in a separate sheet of paper

This paper is not to be opened until the invigilator has granted permission

QUESTION 1

a) Briefly discuss 3 commonly used carbon sources and
2 commonly used nitrogen sources in most fermentation processes.

(20 Marks)

b) Briefly describe two possible sources of micro-organisms that can be used as fermentation starter culture.

(5 Marks)

QUESTION 2

Discuss beers production outlining the four major steps involved.

(25 Marks)

QUESTION 3

Explain four reasons for preventing contamination of fermentation systems and briefly describe five practices that you can employ to prevent contamination of your fermentation process.

(25 Marks)

QUESTION 4

a) Describe and illustrate the major phases of growth of culture during a fermentation process.

(20 Marks)

b) Explain the differences between idiophase and trophophase fermentation stages.

(5 Marks)

QUESTION 5

Discuss the fermentation technology of fish sauces

(25 Marks)