



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

BSC (FOOD TECHNOLOGY AND QUALITY ASSURANCE)

**AFS 4101 : INTRODUCTION TO FOOD TECHNOLOGY AND QUALITY
ASSURANCE**

SPECIAL/ SUPPLIMENTARY EXAMINATIONS

SERIES: SEPTEMBER 2018

TIME: 2 HOURS

DATE: Pick Date Sep 2018

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

Question ONE

- a) Define the term;
 - i) Food Quality [2 marks]
 - ii) Food Safety [2 marks]
- b) Discuss the concept of Quality Assurance in the Food industry [4 marks].
- c) After Independence in 1963, the dairy herd dropped from 400,000 heads to 250,000 heads. State two changes that were effected by government to reverse the trend [4 marks]
- d) Highlight any FOUR steps the Government has taken to raise production efficiency of sugar for efficient competition with imported sugar [4 marks]
- e) State any FIVE functions of the Crop Development Division in the ministry of Agriculture, Livestock and Fisheries Development [5 marks]

- f) Highlight any FIVE activities and services of the Kenya Plant Health Inspectorate Service (KEPHIS) [5 marks]
- g) Describe the operation of the Nairobi coffee Exchange [4 marks]

Question TWO

- a) Describe the following disciplines
- i) Food Science [5 marks]
 - ii) Food Technology [5 marks]
- b) Describe the relationship between food science and food technology [10 marks].

Question THREE

Discuss;

- a) Production of edible fats and oils in Kenya [10 marks]
- b) the structure of edible fats and oils Industry in Kenya [10 marks]

Question FOUR

Describe changes in food that restrict its shelf-life [20 marks]

Question FIVE

Discuss the role of inspection in food control [20 marks]