



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF PURE & APPLIED SCIENCES
UNIVERSITY EXAMINATION FOR:
PRINCIPLES OF FOOD QUALITY ASSURANCE
AFS 4202
SPECIAL/ SUPPLIMENTARY EXAMINATIONS
SERIES: SEPTEMBER 2018
TIME: 2HOURS
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) Discuss the working principles of the following food laboratory instruments.
 - i. Incubators 2m
 - ii. Water bath and shaker 2m
 - iii. Autoclave 2m
- b) List five acts of parliament that govern food production in Kenya 5m
- c) State four reasons as to what is considered an ideal food safety management system? 4m
- d) Using examples where appropriate state when and explain why the Codex Alimentarius Commission was formed 3m
- e) Explain giving examples where appropriate the following
 - i. quality control 2m
 - ii. quality assurance 2m
 - iii. HACCP 2m
 - iv. Instrumentation 2m
- f) List four basic test undertaken to determine the quality of water consumed and utilized in a food processing establishment. 4m

Question TWO

On the event that you have been sent to take a water sample for analysis in the lab, discuss Ten measures you will have to take to make sure the samples are not contaminated. 20m

Question THREE

- a) Discuss five reasons why a quality management system in a laboratory is important 12m
- b) Discuss the difference between food quality and food safety giving illustrations where appropriate 8m

Question FOUR

Discuss sighting examples seven guiding factors that lead to a comprehensive food product development research and list the four steps of developing a new product. 20m

Question FIVE

Develop a simple processing system with about five processing steps and discuss how you can assure the quality of the products you intend to produce 20m