

# TECHNICAL UNIVERSITY OF MOMBASA

# FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF PURE & APPLIED SCIENCES

## **UNIVERSITY EXAMINATION FOR:**

## FOOD PROCESSING

AFS 4411

## SPECIAL/ SUPPLIMENTARY EXAMINATIONS

**SERIES:** SEPTEMBER 2018

TIME: 2HOURS

DATE: Sep2018

#### **Instructions to Candidates**

You should have the following for this examination *Answer Booklet, examination pass and student ID* 

a) List six futuristic food packaging technologies

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

Do not write on the question paper.

#### **Question ONE**

,	State four food ingredients that justify the fact that all foods are of plant or animal origin Explain the six categories of additives	3marks 6marks
d) S	State two methods of pasteurization widely used in the food industry and explain briefly how the	ey work. 6marks
	Define and explain furfurals including their uses  Briefly discuss six functional properties of sugar in food	6marks 6marks

#### **Question TWO**

- a) Explain the process of protein digestion and absorption including all the enzymes involved 10marks
- b) Discuss the degumming process steps of the following
  - i. Water degumming

5marks

3marks

ii. Acid degumming

5marks

# **Question THREE**

Discuss including illustrations where appropriate the step by step process of starch production 20marks

# **Question FOUR**

a) Explain the process of fats digestion indicating all the enzymes involved 10marks

b) Define Blanching and discuss five primary reasons why it is undertaken

10marks

### **Question FIVE**

- a) State two regions in Kenya where coffee is grown and discuss the processing steps of its manufacture 10marks
- b) Discuss five manufacturing steps in the processing of jams and jellies

10marks