

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

INDUSTRIAL CHEMISTRY

AFT 4401: FOOD PROCESSING

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2016

TIME: 2 HOURS

DATE: 1 Dec 2016

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.**

Ouestion ONE

a. Explain giving examples the following terms

i. Proteins Secondary structure
ii. Environmental contaminants
iii. Corn syrup
iv. Food drying
1m

b. Name and explain three types of blanching of food.

c. Identify and explain four risks associated with excessive consumption of confectionary products.

4m

6m

6m

d. Identify and explain two ways of pasteurizing food.

e. Using a flow diagram, illustrate systematically the steps involved in wine processing.

c. Comparison diagram, mustate systematically the steps involved in whice processing.

f. Give four reasons why juices and jellies are concentrated

4m

Question TWO

Discuss the steps involved in processing coffee from when they are planted till the coffee is in a cup ready to drink.

Question THREE

- a. Define freezing as a food preservation method 1mb. List and explain the golden rules of freezing food. 7m
- c. Discuss six futuristic packaging technologies that stand to change the way food and beverages providers operate. 12m

Question FOUR

- a) What is the meaning of HACCP? 1m
- b) What are the main hazards considered in the HACCP process 5m
- c) Discuss the seven principles of HACCP. 14m

Question FIVE

There are many methods of preserving food. List TEN such methods and EXPLAIN the principles underlying each of the methods. 20m