

The Co-operative University of Kenya

END OF SEMESTER EXAMINATION AUGUST -2018

EXAMINATION FOR THE DIPLOMA IN AGRIBUSINESS MANAGEMENT (YR II SEM I)

UNIT CODE: DAFS 2116

UNIT TITLE: FOOD PROCESSING AND PRESERVATION TECHNOLOGIES

DATE: 27TH AUGUST, 2018 TIME: 2:00 PM – 4:00 PM

INSTRUCTIONS:

• Answer question **ONE** (**compulsory**) and any other **TWO** questions

Answer question ONE (compulsory) and any other TWO questions	
QUESTION ONE	
(a) Define the following terms;	(4 Marks)
(i) Food	` ,
(ii) Food processing	
(iii) Food preservation	
(iv) Biodeterioration	
(b) Differentiate between psychrophilic and psychrotophic microorganisms.	(2 Marks)
(c) With the aid of a diagram, explain the FOUR stages of bacterial growth.	(8 Marks)
(d) State THREE main reasons for food packaging.	(3 Marks)
(e) Outline THREE agents of food biodeterioration and briefly explain how the	y cause food
spoilage.	(6 Marks)
(f) State THREE reasons why chilling is such a popular method of preserving food.	
(g) Outline TWO changes tha limit the shelf life of frozen foods.	(2 Marks)
(h) State TWO challenges of Milk collection.	(2 Marks)
OUESTION TWO	
QUESTION TWO (a) Write short notes on the following;	
(a) Write short notes on the following, (i) Curing	(5 Marks)
(i) Curing (ii) Pickling	(2 Marks)
(iii) Smoking	(2 Marks)
(b) Outline FIVE characteristics of clean milk	(5 Marks)
(c) Briefly explain FIVE techniques of clean milk production.	(5 Marks)
(c) Bitchy explain 1112 techniques of clean link production.	(3 Warks)
QUESTION THREE	
(a) Discuss the following food preservation methods;	
(i) High pressure processing	(3 Marks)
(ii) Ohmic heating	(3 Marks)
(iii) Irradiation	(3 Marks)
(iv) Microwave processing	(3 Marks)
(b) Briefly explain FOUR causes of food biodeterioration.	(8 Marks)
QUESTION FOUR	(10.14.1.)
(a) Discuss FIVE methods of cooling milk	(10 Marks)
(b) Write short notes on the general milk treatments.	(10 Marks)