The Co-operative University of Kenya END OF SEMESTER EXAMINATION AUGUST-2018

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

UNIT CODE: DAFS 1209

UNIT TITLE: FUNDAMENTALS OF FOOD SCIENCE AND TECHNOLOGY

DATE: 24TH AUGUST, 2018

TIME: 2:00 PM - 4:00 PM

INSTRUCTIONS:

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

QUESTION ONE

(a) Define the following terms	(6 marks)
i. Nutrients	
ii. Digestion	
iii. Food	
iv. Protein Remuneration	
v. Food industry	
vi. Food packaging	
(b) List down FOUR methods of food preservation	(4 marks)
(c) Identify FIVE factors that influence food selection	(5 marks)
(d) Outline FIVE factors which contribute to hazard in foods	(5 marks)
(e) Describe FOUR types of food and give example in each case	(6 marks)
(f) List down FOUR main components of post-harvest industry	(4 marks)
QUESTION TWO	
(a) Explain FOUR reasons for food preservation	(8 marks)
(b) Discuss THREE main element of food security	(6 marks)
(c) List down SIX benefits derived from study of food chemistry	(6 marks)
QUESTION THREE	
(a) Write short notes on the following types of food processing	(10 marks)
i. Refining and milling	
ii. Caning	
iii. Freezing	
iv. Drying	
v. Explain FIVE objectives of food packages and package labeling	(10 marks)
QUESTION FOUR	
(a) Explain factors that influence individuals basal metabolism rate (BMR)	(10 marks)
(b) List down FOUR characteristics of a nutritious diet	(4 marks)
(c) Distinguish between Ascorbic acid browning and caramelization	(6 marks)
QUESTION FIVE	
(a) What are safety nets as used as used in food security	(2 marks)
(b) Discuss FIVE components of food industry	(10 marks)
(c) Describe FOUR sources of microorganisms in foods	(8 marks)