1903/204 FOOD PROCESSING AND PRESERVATION II Oct./Nov. 2022

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN FOOD PROCESSING AND PRESERVATION TECHNOLOGY

MODULE II

FOOD PROCESSING AND PRESERVATION II

3 hours

INSTRUCTIONS TO CANDIDATES

You should have an answer booklet for this examination.

This paper consists of **TWO** sections; **A** and **B**.

Answer ALL questions in section A and any TWO questions from section B in the answer booklet provided.

Each question in section A carries A marks while each question from section B carries A marks. Maximum marks for each part of a question are as shown.

Candidates should answer the questions in English.

This paper consists of 3 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A (60 marks)

Answer ALL questions in this section.

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1.	State four conditions a mineral water source should meet for commercial use.	(4 marks)	
2.	State four functions of carbonation in soft drink manufacture.	(4 marks)	
3.	Differentiate between whisky and rum.	(4 marks)	
4.	State four factors that favour high production rate of carbon (iv) oxide gas in yeast puring proofing.	products (4 marks)	
5.	Using a diagram, describe parts of a maize cereal grain.	(4 marks)	
6.	Explain two objectives for knock down process of dough in bread making.	(4 marks)	
7.	Explain the reasons for vacuum creation at the head space during canning operations for fruits and vegetables. (4 marks)		
8.	Differentiate between hot exhaustion and hot filling as applied in fruits and vegetables in a canning operation. (4 marks)		
9.	Describe the nutritional composition of fruits.	(4 marks)	
10.	Explain how each of the following factors affect storage life of potatoes:		
	(a) respiration;	(2 marks)	
	(b) high temperature.	(2 marks)	
11.	Describe the desirable quality attributes of potato crisps.	(4 marks)	
12.	Explain the storage loss of potatoes due to darkening of flesh.	(4 marks)	
13.	State four uses of honey in the food processing industry.	(4 marks)	
14.	Distinguish between bagasse and bagacillo in sugarcane processing industry. (4 marks)		
15.	State four reasons for sugarcane preparation before processing.	(4 marks)	

SECTION B (40 marks)

Answer any TWO questions from this section.

16.	(a)	Explain the functions of each of the following ingredients used in production of soft drinks:		
		(i) water;	(2 marks)	
		(ii) acidulants;	(2 marks)	
		(iii) emalcifiers;	(2 marks)	
		(iv) stabilizers;	(2 marks)	
		(v) sugar.	(2 marks)	
	(b)	Discuss the grades of coffee in Kenya.	(10 marks)	
17.	(a)	State five factors which determine the efficiency of imbibition in sugarcane	processing. (5 marks)	
	(b)	State five defects of mineral water due to contamination at the source.	(5 marks)	
	(c)	With the aid of a diagram, describe the compound imbibition as applied in to of production of sugar from sugarcane.	the process (10 marks)	
18.	(a)	Explain the functions of yeast foods as applied in baking technology.	(4 marks)	
	(b)	State four causes of excessive loaf volume in bread making.	(4 marks)	
	(c)	Name four stale retarding agents in baking.	(4 marks)	
	(d)	Explain four functions of fats in the manufacture of baked products.	(8 marks)	
19.	(a) .	State six uses of sweet potatoes in the food industry.	(6 marks)	
	(b)	Using a flow diagram, describe the processing of french fries in the food in	dustry. (14 marks)	

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